


```
0001 0 MODULE setfile (  
0002 0 IDENT = 'V04-000',  
0003 0 ADDRESSING_MODE(EXTERNAL=GENERAL,  
0004 0 NONEXTERNAL=LONG_RELATIVE)  
0005 0 ) =  
0006 1 BEGIN  
0007 1  
0008 1  
0009 1 *****  
0010 1 *  
0011 1 * COPYRIGHT (c) 1978, 1980, 1982, 1984 BY  
0012 1 * DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS.  
0013 1 * ALL RIGHTS RESERVED.  
0014 1 *  
0015 1 * THIS SOFTWARE IS FURNISHED UNDER A LICENSE AND MAY BE USED AND COPIED  
0016 1 * ONLY IN ACCORDANCE WITH THE TERMS OF SUCH LICENSE AND WITH THE  
0017 1 * INCLUSION OF THE ABOVE COPYRIGHT NOTICE. THIS SOFTWARE OR ANY OTHER  
0018 1 * COPIES THEREOF MAY NOT BE PROVIDED OR OTHERWISE MADE AVAILABLE TO ANY  
0019 1 * OTHER PERSON. NO TITLE TO AND OWNERSHIP OF THE SOFTWARE IS HEREBY  
0020 1 * TRANSFERRED.  
0021 1 *  
0022 1 * THE INFORMATION IN THIS SOFTWARE IS SUBJECT TO CHANGE WITHOUT NOTICE  
0023 1 * AND SHOULD NOT BE CONSTRUED AS A COMMITMENT BY DIGITAL EQUIPMENT  
0024 1 * CORPORATION.  
0025 1 *  
0026 1 * DIGITAL ASSUMES NO RESPONSIBILITY FOR THE USE OR RELIABILITY OF ITS  
0027 1 * SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.  
0028 1 *  
0029 1 *  
0030 1 *****  
0031 1  
0032 1  
0033 1 ++  
0034 1 FACILITY: Set File Command  
0035 1  
0036 1 ABSTRACT:  
0037 1  
0038 1 This module processes the Set File command.  
0039 1  
0040 1 ENVIRONMENT:  
0041 1  
0042 1 Vax native, privileged user mode  
0043 1  
0044 1 --  
0045 1  
0046 1 AUTHOR: Gerry Smith CREATION DATE: 04-Aug-1981  
0047 1  
0048 1 MODIFIED BY:  
0049 1  
0050 1 V03-023 AEW0005 Anne E. Warner 24-Jul-1984  
0051 1 Make /EXPIRATION_DATE and /GLOBAL_BUFFERS check if  
0052 1 the qualifier is present before trying to get any values  
0053 1 associated with it. This is needed because these qualifiers  
0054 1 are now negatable.  
0055 1  
0056 1 V03-022 BLS0303 Benn Schreiber 12-APR-1984  
0057 1 Parse null string after parse in /enter code.
```


58	0058	1	
59	0059	1	
60	0060	1	
61	0061	1	
62	0062	1	
63	0063	1	
64	0064	1	
65	0065	1	
66	0066	1	
67	0067	1	
68	0068	1	
69	0069	1	
70	0070	1	
71	0071	1	
72	0072	1	
73	0073	1	
74	0074	1	
75	0075	1	
76	0076	1	
77	0077	1	
78	0078	1	
79	0079	1	
80	0080	1	
81	0081	1	
82	0082	1	
83	0083	1	
84	0084	1	
85	0085	1	
86	0086	1	
87	0087	1	
88	0088	1	
89	0089	1	
90	0090	1	
91	0091	1	
92	0092	1	
93	0093	1	
94	0094	1	
95	0095	1	
96	0096	1	
97	0097	1	
98	0098	1	
99	0099	1	
100	0100	1	
101	0101	1	
102	0102	1	
103	0103	1	
104	0104	1	
105	0105	1	
106	0106	1	
107	0107	1	
108	0108	1	
109	0109	1	
110	0110	1	
111	0111	1	
112	0112	1	
113	0113	1	
114	0114	1	

V03-021	AEW0004	Anne E. Warner	10-Apr-1984
	Fix SET FILE/PROTECTION so that it handles wildcarding.		
V03-020	MCN0156	Maria del C. Nasr	08-Mar-1984
	If the user specifies /VERSION=0, then it should default to the maximum value: 32767. Also, the maximum value is 32767, and not 65535.		
V03-019	AEW0003	Anne E. Warner	28-Feb-1984
	Add support for search lists.		
	- remove related name block from RMS definitions.		
	- add argument to LIB\$FILE_SCAN		
V03-018	LMP0191	L. Mark Pilant,	10-Feb-1984 16:27
	Validate the value of the /OWNER qualifier.		
V03-017	DAS0002	David Solomon	6-Feb-1984
	Specify ACESM_NOPROPAGATE for RMSJNLID ACE. Disable /JOURNAL.		
V03-016	AEW0002	Anne Warner	15-Dec-1983
	Add /PROTECTION qualifier with keywords /CONFIRM and /LOG.		
V03-015	JWT0139	Jim Teague	09-Nov-1983
	Change the name of two of the RU fields; ensure that we don't leave the file set with conflicting RU attributes.		
V03-014	AEW0001	Anne Warner	08-Nov-1983
	Add /UNLOCK qualifier with keywords /CONFIRM and /LOG.		
V03-013	DAS0001	David Solomon	29-Jul-1983
	Fold /AI JOURNAL, /BI JOURNAL, and /AT JOURNAL into keywords on the /JOURNAL qualifier. /JOURNAL keyword RUM is now ONLY_RU. Add NEVER_RU keyword; a few journaling-related fixes.		
V03-012	GAS0147	Gerry Smith	27-Jun-1983
	Change the file attribute modification so that it is done thru a IOS MODIFY instead of simply during the IOS_DEACCESS. This is necessary for the case of the version limit, since it cannot be changed on file deaccess.		
V03-011	GAS0141	Gerry Smith	17-Jun-1983
	Signal all common qualifiers more completely, so that the specified file can be found.		
V03-010	KPL0002	Peter Lieberwirth	30-May-1983
	Change JSB\$S_JNLNAM to CJF\$C_MXJNLNAML.		
V03-009	KPL0001	Peter Lieberwirth	20-Apr-1983
	Set journal names via new qualifiers AI JOURNAL, BI JOURNAL, and AT JOURNAL. When marking the file for journaling, write an RMSJNLID ACE.		

115	0115	1	V03-008	GAS0118	Gerry Smith	12-Apr-1983
116	0116	1		Add the common qualifiers.		
117	0117	1				
118	0118	1	V03-007	GAS0112	Gerry Smith	30-Mar-1983
119	0119	1		Convert to the new CLI interface, as well as a new		
120	0120	1		command dispatcher.		
121	0121	1				
122	0122	1	V03-006	TMK0001	Todd M. Katz	28-Feb-1983
123	0123	1		If someone requested AI journalling on a file to be turned		
124	0124	1		off (/JOURNAL=NOAI) then turn it off. Currently, AI Journalling		
125	0125	1		will always be enabled whenever it is explicitly referred to		
126	0126	1		(/JOURNAL=AI or /JOURNAL=NOAI), and there is no way to disable		
127	0127	1		it.		
128	0128	1				
129	0129	1	V03-005	GAS0091	Gerry Smith	19-Oct-1982
130	0130	1		Change input request for new CLD syntax.		
131	0131	1				
132	0132	1	V03-004	GAS0083	Gerry Smith	15-Jul-1982
133	0133	1		Modify logic for RU journal option, to agree with		
134	0134	1		new definition. The RUJNL bit used to have the opposite		
135	0135	1		sense of all other journal bits. It now has the same sense.		
136	0136	1				
137	0137	1	V03-003	GAS0071	Gerry Smith	8-Apr-1982
138	0138	1		If the writer count for a file is non-zero, don't allow		
139	0139	1		modification. If /END is attempted on INDEXF.SYS, don't		
140	0140	1		allow it.		
141	0141	1				
142	0142	1	V03-002	GAS0068	Gerry Smith	31-Mar-1982
143	0143	1		If a truncate is attempted on an indexed file, signal		
144	0144	1		an error.		
145	0145	1				
146	0146	1	V03-001	GAS0064	Gerry Smith	19-Mar-1982
147	0147	1		Change check of qualifiers to include /GLOBAL_BUFFERS.		
148	0148	1				
149	0149	1	V03-005	GAS0050	Gerry Smith	22-Feb-1982
150	0150	1		Only access the file header for something besides		
151	0151	1		/ENTER or /REMOVE. Make the error messages for /ENTER		
152	0152	1		and /REMOVE more meaningful. Change the /ENTER check for		
153	0153	1		same devices to use the DVI fields of the NAM blocks.		
154	0154	1				
155	0155	1	V03-004	GAS0047	Gerry Smith	15-Feb-1982
156	0156	1		For SET FILE/ENTER, parse the new file name here, after		
157	0157	1		the old file name is available, so that stickiness can		
158	0158	1		be applied.		
159	0159	1				
160	0160	1	V03-003	GAS0038	Gerry Smith	2-Feb-1982
161	0161	1		Add /GLOBAL_BUFFERS, the global buffer count for a		
162	0162	1		file. Also, if the file is ODS1, then move the record		
163	0163	1		attributes to the location occupied in an ODS2 file.		
164	0164	1		This allows the BIND in routine SET_ATTRIBUTES to apply		
165	0165	1		to both kinds of file headers.		
166	0166	1				
167	0167	1	V03-002	GAS0026	Gerry Smith	18-Dec-1981
168	0168	1		Use shared message file, and lower fatal messages to		
169	0169	1		simple error messages.		
170	0170	1				
171	0171	1	V03-001	GAS0024	Gerry Smith	14-Dec-1981

SETFILE
V04-000

F 3
16-Sep-1984 00:53:51
14-Sep-1984 12:09:07

VAX-11 Bliss-32 V4.0-742
[CLIUTL.SRC]SETFILE.B32:1

Page 4
(1)

```
.. 172      0172  1  |
.. 173      0173  1  |
.. 174      0174  1  |
.. 175      0175  1  |
.. 176      0176  1  |
.. 177      0177  1  |
.. 178      0178  1  |
.. 179      0179  1  |
.. 180      0180  1  |
.. 181      0181  1  |
.. 182      0182  1  |
.. 183      0183  1  |
.. 184      0184  1  |
.. 185      0185  1  |
.. 186      0186  1  |
.. 187      0187  1  |
.. 188      0188  1  |
.. 189      0189  1  |..
```

Fix /LOG logic for /ENTER and /REMOVE

V03-001 MSH0001 Maryann Hinden 02-Dec-1981
Change references to FIBSC_SIZE to FIBSC_LENGTH.

V03-001 GAS0021 Gerry Smith 30-Nov-1981
Fix /VERSION, making FIB larger

V03-001 GAS0018 Gerry Smith 16-Nov-1981
Split SET FILE into separate modules

V03-001 GAS0011 Gerry Smith 22-Sep-1981
Fix wildcarding for /ENTER. Add /END_OF_FILE

V03-002 GAS0012 Gerry Smith 30-Sep-1981
Add /LOG and /CONFIRM

SETFILE
V04-000

6 3
16-Sep-1984 00:53:51
14-Sep-1984 12:09:07

VAX-11 Bliss-32 V4.0-742
[CLIUTL.SRC]SETFILE.B32;1

Page 5
(2)

: 191
: 192
: 193

0190 1 LIBRARY 'SYSS\$LIBRARY:LIB';
0191 1 LIBRARY 'SYSS\$LIBRARY:CLIMAC.L32';
0192 1

! CLI macros

```
195 0193 1 FORWARD ROUTINE
196 0194 1   set$file : NOVALUE,
197 0195 1   get_qual,
198 0196 1   set_attributes,
199 0197 1
200 0198 1   unlock_action,
201 0199 1   check_privilege : NOVALUE,
202 0200 1   search_error,
203 0201 1   file_error,
204 0202 1   setpro_action,
205 0203 1   prot_log_results,
206 0204 1   expand_prot,
207 0205 1   parse_class;
208 0206 1
209 0207 1 EXTERNAL ROUTINE
210 0208 1   parse_uic,
211 0209 1   cli$present,
212 0210 1   cli$get_value,
213 0211 1   lib$cv_tdtb,
214 0212 1   lib$cv_time,
215 0213 1   lib$file_scan,
216 0214 1   lib$qual_file_parse,
217 0215 1   lib$qual_file_match,
218 0216 1   lib$confirm_act,
219 0217 1   lib$get_command,
220 0218 1   lib$unlock_file,
221 0219 1   sys$fao,
222 0220 1   sys$setprv,
223 0221 1   lib$set_file_prot;
224 0222 1
225 0223 1
226 0224 1   Literal data definitions
227 0225 1
228 0226 1 LITERAL
229 0227 1   true = 1;
230 0228 1   false = 0;
231 0229 1
232 0230 1 MACRO
233 0231 1
234 0232 1   Macro definitions for fields in access control entries needed by RMS
235 0233 1   Journaling
236 0234 1
237 0235 1   id_ace$s_size = 32 %;
238 0236 1   id_ace$t_label = 4,0,0,0 %;
239 0237 1   id_ace$w_num = 16,0,16,0 %;
240 0238 1   id_ace$w_seq = 18,0,16,0 %;
241 0239 1   id_ace$w_rvn = 20,0,16,0 %;
242 0240 1   id_ace$q_time = 24,0,32,0 %;
243 0241 1   ace$t_jnlnam = 4,0,0,0 %;
244 0242 1
245 0243 1   A) Macro to describe a string
246 0244 1   B) Macro to generate a quadword string descriptor
247 0245 1   C) Macro to generate the address of a string descriptor
248 0246 1
249 0247 1   PRIMDESC (str) = %CHARCOUNT (str), UPLIT (%ASCII str)%,
250 0248 1   INITDESC (str) = %BLOCK [DSC$C S,BLN] INITIAL (PRIMDESC (str))%,
251 0249 1   ADDRDESC (str) = UPLIT (PRIMDESC (str))%;
```

! Main routine for file
! Get qualifiers
! Routine to set file attributes
! Common routines:
! Called to control each UNLOCK action
! Routine to check for privilege
! Where to go if file search fails
! Where to go if file error occur
! Called to control each file PROTECTION
! Called when user requests a log for PROTECTION
! Converts binary protection to ascii
! Parses the protection of one user class

! Convert a UIC
! Get qualifiers
! Get values of qualifiers
! Convert ASCII to numerical
! Convert time to internal
! Routine to find next file
! Parse common qualifiers
! Check for common qualifiers
! Confirm action with user
! Talk to SYSSCOMMAND
! Unlocks files
! Expands formatted messages
! Set privileges for protection
! Set file protection

! size in bytes of rmsjnlid ACE
! volume label in rmsjnlid ACE
! fid num in rmsjnlid ACE
! fid seq in rmsjnlid ACE
! fid rvn in rmsjnlid ACE
! time in rmsjnlid ACE
! journal name string in jnl ACE

SETFILE
V04-000

¹₃
16-Sep-1984 00:53:51
14-Sep-1984 12:09:07

VAX-11 Bliss-32 V4.0-742
[CLIUTL.SRC]SETFILE.B32;1

Page 7
(3)

: 252
: 253

0250 1
0251 1

```

255 0252 1 1 1 Define the data that is used by SET FILE
256 0253 1
257 0254 1
258 0255 1 GLOBAL
259 0256 1 setfile$flags : BITVECTOR[32] INITIAL(0), ! Qualifier bits word
260 0257 1 setfile$dflags : BITVECTOR[32] INITIAL(0), ! DATA CHECK options word
261 0258 1 setfile$jflags : BITVECTOR[32] INITIAL(0), ! JOURNAL options word
262 0259 1 setfile$mflags : BITVECTOR[32] INITIAL(0), ! Miscellaneous flags word
263 0260 1 setpro_prot : WORD INITIAL(0), ! Contains /PROTECTION value
264 0261 1 setpro_mask : WORD INITIAL(0), ! Contains /PROTECTION mask
265 0262 1 global_prot : WORD, ! Command wide protection
266 0263 1 global_mask : WORD, ! Command wide mask for protection
267 0264 1 exp_value : $BBLOCK[8], ! Expiration date
268 0265 1 exte_value, ! Extension quantity
269 0266 1 gbuf_value, ! Global buffer value
270 0267 1 uic_value, ! Owner uic
271 0268 1 group, ! Group number
272 0269 1 member, ! Member number
273 0270 1 vrsn_value, ! Version limit
274 0271 1 rename_buf : VECTOR[nam$c_maxrss, BYTE], ! Name buffer for /ENTER
275 0272 1 file_name : VECTOR[2], ! ENTER/REMOVE descriptor
276 0273 1 ai_jnl_name : VECTOR[cjf$c_mxjnl_nam1, BYTE], ! AI journal name
277 0274 1 at_jnl_name : VECTOR[cjf$c_mxjnl_nam1, BYTE], ! AT journal name
278 0275 1 bi_jnl_name : VECTOR[cjf$c_mxjnl_nam1, BYTE], ! BI journal name
279 0276 1 ai_jnl_desc : $BBLOCK[dsc$c_s_bln], ! AI_JOURNAL descriptor
280 0277 1 PRESET( [dsc$a_pointer] = ai_jnl_name ), !
281 0278 1 at_jnl_desc : $BBLOCK[dsc$c_s_bln], ! AT_JOURNAL descriptor
282 0279 1 PRESET( [dsc$a_pointer] = at_jnl_name ), !
283 0280 1 bi_jnl_desc : $BBLOCK[dsc$c_s_bln], ! BI_JOURNAL descriptor
284 0281 1 PRESET( [dsc$a_pointer] = bi_jnl_name ), !
285 0282 1 worst_error : $BBLOCK[4] INITIAL(ss$normal), ! Worst error reported
286 0283 1 conf_desc : $BBLOCK[dsc$c_s_bln], ! Descriptor for /LOG/CONFIRM
287 0284 1
288 0285 1 oldpriv : $BBLOCK[8], ! Permanent priv's stored here
289 0286 1 newpriv : $BBLOCK[8], ! Mask describing system priv
290 0287 1 PRESET ([prv$sv_sysprv]=true), ! Initialize this bit
291 0288 1
292 0289 1 RMS storage
293 0290 1
294 0291 1 file_result : VECTOR[nam$c_maxrss, BYTE], ! Resultant name string
295 0292 1 file_expanded : VECTOR[nam$c_maxrss, BYTE], ! Expanded name string
296 P 0293 1 file_nam : $NAM( ! File name block
297 P 0294 1 ESA = file_expanded,
298 P 0295 1 ESS = nam$c_maxrss,
299 P 0296 1 RSA = file_result, ! File name after open
300 0297 1 RSS = nam$c_maxrss),
301 P 0298 1 file_fab : $FAB( ! FAB for file
302 0299 1 NAM = file_nam); ! Specify name block
303 0300 1
304 0301 1
305 0302 1 1 1 Declare the context block used by the common qualifiers
306 0303 1
307 0304 1 OWN
308 0305 1 context:

```

```

310      0306 1
311      0307 1
312      0308 1
313      0309 1
314      0310 1
315      0311 1
316      0312 1
317      0313 1
318      0314 1
319      0315 1
320      0316 1
321      0317 1
322      0318 1
323      0319 1
324      0320 1
325      0321 1
326      0322 1
327      0323 1
328      0324 1
329      0325 1
330      0326 1
331      0327 1
332      0328 1
333      0329 1
334      0330 1
335      0331 1
336      0332 1
337      0333 1
338      0334 1
339      0335 1
340      0336 1
341      0337 1
342      0338 1
343      0339 1
344      0340 1
345      0341 1
346      0342 1
347      0343 1
348      0344 1
349      0345 1
350      0346 1
351      0347 1
352      0348 1
353      0349 1
354      0350 1
355      0351 1
356      0352 1
357      0353 1
358      0354 1
359      0355 1
360      0356 1
361      0357 1
362      0358 1
363      0359 1
364      0360 1
365      0361 1
366      0362 1

```



```
367      (specified_ru.),
368      (only_ru.),
369      (specified_only_ru.),
370      (never_ru.),
371      (specified_never_ru.),
372      (a1_name.),
373      (a2_name.),
374      (b1_name.),
375      (b2_name.);
376
377      Declare the miscellaneous flags
378
379      LITERAL
380      SEQUENTIAL
381      (MISC-1.1,
382      (mark_file,
383      (already_rms)nlid,));
384
385      Declare the error messages
386
387      Definitions in [CLIUTL.SRC]SET.MSG
388
389      EXTERNAL LITERAL
390      lib$_quiconact,      Quit asking for confirmation
391      lib$$_negans,        Negative response to confirmation
392      lib$$_quipro,        Quit processing
393      lib$$_filfaimat,      Common qualifier match failed
394      cli$$_ivprot,        Invalid protection
395      cli$$_negated,        Value explicitly negated
396      cli$$_absent,        Value not present and no default
397      set$$_operreq,        OPER required
398      set$$_closeerr,      Could not close file
399      set$$_entered,       File entered in a directory
400      set$$_enterr,        Error entering file
401      set$$_modified,      File/directory modified
402      set$$_nonode,        Node specification not allowed
403      set$$_notdir,        Not a directory
404      set$$_notlocked,     File not locked
405      set$$_notods2,       Not an ODS2 structure
406      set$$_opendir,       Could not open parent directory
407      set$$_pronotchg,     Error message - "Protection not changed"
408      set$$_proerr,        Error in changing the protection
409      set$$_protected,     Informational log message for protection
410      set$$_readerr,       Error reading the file
411      set$$_remerr,        Could not remove file
412      set$$_removed,       Directory entry removed
413      set$$_unlockerr,     Could not lock file
414      set$$_writeerr,      Error modifying file
415      set$$_unlocked;      File unlocked
416
417      Define messages from the shared message facility
418
419      P 0417 1 $SHR_MSGDEF (set, 119, global,
420      P 0418 1 (badlogic, severe),      Fatal internal software error
421      P 0419 1 (badvalue, error),      Invalid keyword value
```

SETFILE
V04-000

M 3
16-Sep-1984 00:53:51 VAX-11 Bliss-32 V4.0-742
14-Sep-1984 12:09:07 [CLIUTL.SRC]SETFILE.B32:1

Page 11
(5)

...	424	P	0420	1	(valerr, error),	Value out of range
...	425	P	0421	1	(syntax, error),	Syntax problem
...	426	P	0422	1	(confqual, error),	Conflicting qualifiers
...	427	P	0423	1	(delver, error),	Explicit version number required
...	428	P	0424	1	(notrunc, error),	Truncation not allowed
...	429	P	0425	1	(openin, error),	Error opening a file
...	430	P	0426	1	(searchfail, error));	Error searching for a file

```
432 0427 GLOBAL ROUTINE set$file : NOVALUE =
433 0428
434 0429 ++
435 0430
436 0431 Functional description
437 0432
438 0433 This is the main control module. It calls LIB$FILE_SCAN to perform
439 0434 the necessary functions on the file(s) specified in the call to SET.
440 0435
441 0436 Calling sequence
442 0437
443 0438 CALL set$file()
444 0439
445 0440 Input parameters
446 0441 none
447 0442
448 0443 Output parameters
449 0444 none
450 0445
451 0446 Implicit outputs
452 0447 none
453 0448
454 0449 Routine value
455 0450 none
456 0451
457 0452 Side effects
458 0453 none
459 0454
460 0455 --
461 0456
462 0457 BEGIN
463 0458
464 0459 LOCAL
465 0460 desc : $BLOCK[dsc$c_s_bln],
466 0461 scan_context, ! Sticky context argument for FILE$SCAN
467 0462 status;
468 0463
469 0464
470 0465 !! Check to make sure that the image is running with correct privilege.
471 0466
472 0467 check_privilege();
473 0468
474 0469
475 0470 !! Get the common qualifiers
476 0471
477 0472 status = lib$qual_file_parse(%REF(lib$m_cqf_exclude OR
478 0473 lib$m_cqf_before OR
479 0474 lib$m_cqf_since OR
480 0475 lib$m_cqf_created OR
481 0476 lib$m_cqf_modified OR
482 0477 lib$m_cqf_byowner),
483 0478 context);
484 0479 IF NOT status
485 0480 THEN (SIGNAL(.status); RETURN);
486 0481
487 0482
488 0483 !! Now to get all the command qualifiers.
```


00000 CONTEXT: BLKB 4

```
.PSECT $GLOBALS,NOEXE,2
00000000 00000 SETFILES$FLAGS::
               .LONG 0
00000000 00004 SETFILES$D$FLAGS::
               .LONG 0
00000000 00008 SETFILES$J$FLAGS::
               .LONG 0
00000000 0000C SETFILES$M$FLAGS::
               .LONG 0
0000 00010 SETPRO_PROT::
               .WORD 0
0000 00012 SETPRO_MASK::
               .WORD 0
00014 GLOBAL_PROT::
               .BLKB 2
00016 GLOBAL_MASK::
               .BLKB 2
00018 EXP_VALUE::
               .BLKB 8
00020 EXTE_VALUE::
               .BLKB 4
00024 GBUF_VALUE::
               .BLKB 4
00028 UIC_VALUE::
               .BLKB 4
0002C GROUP:: .BLKB 4
00030 MEMBER:: .BLKB 4
00034 VRSN_VALUE::
               .BLKB 4
00038 RENAME_BUF::
               .BLKB 255
00137 .BLKB 1
00138 FILE_NAME::
               .BLKB 8
00140 AI_JNL_NAME::
               .BLKB 16
00150 AT_JNL_NAME::
               .BLKB 16
00160 BI_JNL_NAME::
               .BLKB 16
00# 00170 AI_JNL_DESC::
               .BYTE 0[4]
00000000' 00174 .ADDRESS AI_JNL_NAME
00# 00178 AT_JNL_DESC::
               .BYTE 0[4]
00000000' 0017C .ADDRESS AT_JNL_NAME
00# 00180 BI_JNL_DESC::
               .BYTE 0[4]
00000000' 00184 .ADDRESS BI_JNL_NAME
00000001 00188 WORST_ERROR::
               .LONG 1
0018C CONF_DESC::
               .BLKB 8
00194 OLDPRIV::
               .BLKB 8
00# 0019C NEWPRIV::
```

```
10 0019F .BYTE 0[3]
    001A0 .BYTE 16
    001A4 FILE_RESULT:: .BLKB 4
    002A3 .BLKB 255
    002A4 FILE_EXPANDED:: .BLKB 1
    003A3 .BLKB 255
    02 003A4 FILE_NAM:: .BLKB 1
    60 003A5 .BYTE 2
    FF 003A6 .BYTE 96
    00 003A7 .BYTE -1
    00000000 003A8 .BYTE 0
    00 003AC .ADDRESS FILE_RESULT
    00 003AD .BYTE 0
    FF 003AE .BYTE -1
    00 003AF .BYTE 0
    00000000 003B0 .ADDRESS FILE_EXPANDED
    00000000 003B4 .LONG 0
    0000# 003B8 .WORD 0[8]
    0000# 003C8 .WORD 0[3]
    0000# 003CE .WORD 0[3]
    00000000 003D4 .LONG 0
    00000000 003D8 .LONG 0
    00 003DC .BYTE 0
    00 003DD .BYTE 0
    00 003DE .BYTE 0
    00 003DF .BYTE 0
    00 003E0 .BYTE 0
    00 003E1 .BYTE 0
    00# 003E2 .BYTE 0[2]
    00000000 003E4 .LONG 0
    00000000 003E8 .LONG 0
    00000000 003EC .LONG 0
    00000000 003F0 .LONG 0
    00000000 003F4 .LONG 0
    00000000 003F8 .LONG 0
    00000000# 003FC .LONG 0[2]
    03 00404 FILE_FAB:: .BYTE 3
    50 00405 .BYTE 80
    0000 00406 .WORD 0
    00000000 00408 .LONG 0
    00000000 0040C .LONG 0
    00000000 00410 .LONG 0
    00000000 00414 .LONG 0
    0000 00418 .WORD 0
    02 0041A .BYTE 2
    00 0041B .BYTE 0
    00000000 0041C .LONG 0
    00 00420 .BYTE 0
    00 00421 .BYTE 0
    00 00422 .BYTE 0
    02 00423 .BYTE 2
    00000000 00424 .LONG 0
```



```

00000000 00428 .LONG 0
00000000 0042C .ADDRESS FILE_NAM
00000000 00430 .LONG 0
00000000 00434 .LONG 0
      00 00438 .BYTE 0
      00 00439 .BYTE 0
    0000 0043A .WORD 0
00000000 0043C .LONG 0
      00 00440 .WORD 0
      00 00442 .BYTE 0
      00 00443 .BYTE 0
00000000 00444 .LONG 0
00000000 00448 .LONG 0
      00 0044C .WORD 0
      00 0044E .BYTE 0
      00 0044F .BYTE 0
00000000 00450 .LONG 0

```

```

SETS_BADLOGIC== 7803172
SETS_BADVALUE== 7803154
SETS_VALERR== 7803370
SETS_SYNTAX== 7803130
SETS_CONFQUAL== 7803618
SETS_DELVER== 7803402
SETS_NOTRUNC== 7803650
SETS_OPENIN== 7803034
SETS_SEARCHFAIL== 7803450

```

```

.EXTRN PARSE_UIC, CLISPRESNT
.EXTRN CLISGET_VALUE, LIBSCVT_DTB
.EXTRN LIBSCVT_TIME, LIB$FILE_SCAN
.EXTRN LIB$QUAL_FILE_PARSE
.EXTRN LIB$QUAL_FILE_MATCH
.EXTRN LIB$CONFIRM_ACT
.EXTRN LIB$GET_COMMAND
.EXTRN LIB$UNLOCK_FILE
.EXTRN SYSS$FAO, SYSS$SETPRV
.EXTRN LIB$SET_FILE_PROT
.EXTRN LIB$QUITONACT, LIB$NEGANS
.EXTRN LIB$QUIPRO, LIB$FIC$AIMAT
.EXTRN CLIS_IVPROT, CLIS_NEGATED
.EXTRN CLIS_ABSENT, SETS_OPERREQ
.EXTRN SETS_CLOSEERR, SETS_ENTERED
.EXTRN SETS_ENTERR, SETS_MODIFIED
.EXTRN SETS_NONODE, SETS_NOTDIR
.EXTRN SETS_NOTLOCKED, SETS_NOTODS2
.EXTRN SETS_OPENDIR, SETS_PRONOTCHG
.EXTRN SETS_PROERR, SETS_PROTECTED
.EXTRN SETS_READERR, SETS_REMERR
.EXTRN SETS_REMOVED, SETS_UNLOCKERR
.EXTRN SETS_WRITEERR, SETS_UNLOCKED

```

.PSECT \$CODE\$,NOWRT,2

```

53 00000000G 000C 00000
52 00000000' 00 9E 00002
5E          EF 9E 00009
          10 C2 00010

```

```

.ENTRY SET$FILE, Save R2,R3
MOVAB LIB$STOP, R3
MOVAB SETFILES$JFLAGS, R2
SUBL2 #16, SP

```

0427

00000000V	EF	00000000'	00	FB	00013	CALLS	#0, CHECK_PRIVILEGE	0467
04	AE	013E	EF	9F	0001A	PUSHAB	CONTEXT	0472
		04	8F	3C	00020	MOVZWL	#318, 4(SP)	0476
00000000G	00		AE	9F	00026	PUSHAB	4(SP)	0472
	0A		02	FB	00029	CALLS	#2, LIB\$QUAL_FILE_PARSE	
			50	EB	00030	BLBS	STATUS, 1\$	0479
00000000G	00		50	DD	00033	PUSHL	STATUS	0480
			01	FB	00035	CALLS	#1, LIB\$SIGNAL	
				04	0003C	RET		
00000000V	EF		00	FB	0003D	CALLS	#0, GET_QUALS	0485
	68		50	E9	00044	BLBC	R0, 9\$	
1D	FB		04	E1	00047	BBC	#4, SETFILES\$FLAGS, 4\$	0493
05	FC		01	E1	0004C	BBC	#1, SETFILES\$D_FLAGS, 2\$	0495
0A	FC		03	E0	00051	BBS	#3, SETFILES\$D_FLAGS, 3\$	
0E	FC		02	E1	00056	BBC	#2, SETFILES\$D_FLAGS, 4\$	0496
09	FC		04	E1	0005B	BBC	#4, SETFILES\$D_FLAGS, 4\$	
		007712E2	8F	DD	00060	PUSHL	#7803618	0497
	63		01	FB	00066	CALLS	#1, LIB\$STOP	
23	F9		03	E1	00069	BBC	#3, SETFILES\$FLAGS+1, 7\$	0499
			62	95	0006E	TSTB	SETFILES\$JFLAGS	0501
			0C	18	00070	BGEQ	5\$	
11	01		01	E0	00072	BBS	#1, SETFILES\$JFLAGS+1, 6\$	
			05	18	00077	BGEQ	5\$	0502
0A	01		03	E0	00079	BBS	#3, SETFILES\$JFLAGS+1, 6\$	
0E	01		01	E1	0007E	BBC	#1, SETFILES\$JFLAGS+1, 7\$	0503
09	01		03	E1	00083	BBC	#3, SETFILES\$JFLAGS+1, 7\$	
		007712E2	8F	DD	00088	PUSHL	#7803618	0504
	63		01	FB	0008E	CALLS	#1, LIB\$STOP	
		04	AE	D4	00091	CLRL	SCAN_CONTEXT	0510
	08		8F	D0	00094	MOVL	#34471936, DESC	0511
		0C	AE	D4	0009C	CLRL	DESC+4	
		08	AE	9F	0009F	PUSHAB	DESC	0512
		00000000'	EF	9F	000A2	PUSHAB	P.AAA	
00000000G	00		02	FB	000A8	CALLS	#2, CLIS\$GET_VALUE	
	2D		50	E9	000AF	BLBC	R0, 10\$	
28	FA		06	E0	000B2	BBS	#6, SETFILES\$FLAGS+2, 10\$	0513
	0430		AE	90	000B7	MOVB	DESC, FILE_FAB+52	0515
	0428		AE	D0	000BD	MOVL	DESC+4, FILE_FAB+44	0516
		08	AE	9F	000C3	PUSHAB	SCAN_CONTEXT	0517
		0C	EF	9F	000C6	PUSHAB	SEARCH_ERROR	
		04	EF	9F	000CC	PUSHAB	SET_ATTRIBUTES	
		00000000V	C2	9F	000D2	PUSHAB	FILE_FAB	
		00000000V	04	FB	000D6	CALLS	#4, LIB\$FILE_SCAN	
		03FC	11	000DD	BRB	8\$		
00000000G	00		04	000DF	RET			0525

: Routine Size: 224 bytes, Routine Base: \$CODE\$ + 0000

```
532 0526 1 ROUTINE get_qual =
533 0527 1 **
534 0528 1
535 0529 1 This routine gets all the qualifiers and values.
536 0530 1
537 0531 1
538 0532 2 BEGIN
539 0533 2
540 0534 2 LOCAL
541 0535 2     status,
542 0536 2     desc : $BLOCK[dsc$c_s_bln];
543 0537 2
544 0538 2 $init_dyndesc(desc);           ! Make a dynamic descriptor
545 0539 2
546 0540 2
547 0541 2 /[[NO]BACKUP
548 0542 2
549 0543 2 status = cli$present(%ASCID 'BACKUP');
550 0544 2 IF .status
551 0545 2 THEN setfile$flags[qual_backup] = 1
552 0546 2 ELSE IF .status EQL cli$_negated
553 0547 2 THEN setfile$flags[qual_nobackup] = 1;
554 0548 2
555 0549 2
556 0550 2 /CONFIRM
557 0551 2
558 0552 2 IF cli$present(%ASCID 'CONFIRM')
559 0553 2 THEN setfile$flags[qual_confirm] = 1;
560 0554 2
561 0555 2
562 0556 2 /DATA_CHECK
563 0557 2
564 0558 2 IF cli$present(%ASCID 'DATA_CHECK')
565 0559 2 THEN
566 0560 2     BEGIN
567 0561 2         setfile$flags[qual_data] = 1;
568 0562 2         IF NOT cli$get_value(%ASCID 'DATA_CHECK', desc)
569 0563 2         THEN setfile$dflags[data_write] = 1
570 0564 2         ELSE INCR i FROM 0 TO 1 DO
571 0565 2             BEGIN
572 0566 2                 IF CH$EQL(.desc[dsc$w_length], .desc[dsc$a_pointer],
573 0567 2                     .desc[dsc$w_length], UPLIT(BYTE('WRITE')));
574 0568 2                 THEN setfile$dflags[data_write] = 1
575 0569 2                 ELSE IF CH$EQL(.desc[dsc$w_length], .desc[dsc$a_pointer],
576 0570 2                     .desc[dsc$w_length], UPLIT(BYTE('READ')));
577 0571 2                 THEN setfile$dflags[data_read] = 1
578 0572 2                 ELSE
579 0573 2                     BEGIN
580 0574 2                         SIGNAL(set$_syntax, 1, desc);
581 0575 2                         RETURN false;
582 0576 2                     END;
583 0577 2                 IF NOT cli$get_value(%ASCID 'DATA_CHECK', desc)
584 0578 2                 THEN EXITLOOP
585 0579 2                 END;
586 0580 2     END;
587 0581 2
588 0582 2 !
```



```
589 0583 2 /ENTER
590 0584
591 0585 IF cli$get_value(%ASCID 'ENTER', desc)
592 0586 THEN
593 0587 BEGIN
594 0588     setfile$flags[qual_enter] = 1;
595 0589     CH$MOVE(.desc[dsc$w_length],
596 0590             .desc[dsc$a_pointer],
597 0591             rename_buf);
598 0592     file_name[0] = .desc[dsc$w_length];
599 0593     file_name[1] = .desc[dsc$a_pointer];
600 0594     $init_dyndesc(desc);
601 0595 END;
602 0596
603 0597
604 0598 /END_OF_FILE
605 0599
606 0600 IF cli$present(%ASCID 'END OF FILE')
607 0601 THEN setfile$flags[qual_eot] = 1;
608 0602
609 0603
610 0604 /[NO]ERASE_ON_DELETE
611 0605
612 0606 status = cli$present(%ASCID 'ERASE_ON_DELETE');
613 0607 IF .status
614 0608 THEN setfile$flags[qual_erase] = 1
615 0609 ELSE IF .status EQ cli$negated
616 0610 THEN setfile$flags[qual_noerase] = 1;
617 0611
618 0612
619 0613 /EXPIRATION_DATE
620 0614
621 0615 IF cli$present(%ASCID 'EXPIRATION_DATE')
622 0616 THEN
623 0617     IF cli$get_value(%ASCID 'EXPIRATION_DATE', desc)
624 0618     THEN
625 0619         BEGIN
626 0620             setfile$flags[qual_expi] = 1;
627 0621             IF NOT lib$cvt_time(desc, exp_value)
628 0622             THEN
629 0623                 BEGIN
630 0624                     SIGNAL(set$syntax, 1, desc);
631 0625                     RETURN false;
632 0626                 END;
633 0627             END;
634 0628
635 0629
636 0630 /EXTENSION
637 0631
638 0632 IF cli$present(%ASCID 'EXTENSION')
639 0633 THEN
640 0634     BEGIN
641 0635         setfile$flags[qual_exte] = 1;
642 0636         exte_value = 5;
643 0637         IF cli$get_value(%ASCID 'EXTENSION', desc)
644 0638         THEN
645 0639             BEGIN
```

```
0640 4      IF NOT lib$cvl_dtb(.desc[dsc$w_length],
0641 4      .desc[dsc$a_pointer],
0642 4      exte_value)
0643 4      THEN
0644 4      BEGIN
0645 4      SIGNAL(set$syntax, 1, desc);
0646 4      RETURN false;
0647 4      END;
0648 4      IF .exte_value LSS 0
0649 4      OR .exte_value GTR 65535
0650 4      THEN
0651 4      BEGIN
0652 4      SIGNAL(set$syntax, 1, desc, set$valerr);
0653 4      RETURN false;
0654 4      END;
0655 4      END;
0656 4      END;
0657 4
0658 4      /GLOBAL_BUFFERS
0659 4
0660 4      IF cli$present(%ASCII 'GLOBAL_BUFFERS')
0661 4      THEN
0662 4      IF cli$get_value(%ASCII 'GLOBAL_BUFFERS', desc)
0663 4      THEN
0664 4      BEGIN
0665 4      setfile$flags[qual_gbuf] = 1;
0666 4      IF NOT lib$cvl_dtb(.desc[dsc$w_length],
0667 4      .desc[dsc$a_pointer],
0668 4      gbuf_value)
0669 4      THEN
0670 4      BEGIN
0671 4      SIGNAL(set$syntax, 1, desc);
0672 4      RETURN false;
0673 4      END;
0674 4      IF .gbuf_value GTR 65535
0675 4      OR .gbuf_value LSS 0
0676 4      THEN
0677 4      BEGIN
0678 4      SIGNAL(set$syntax, 1, desc, set$valerr);
0679 4      RETURN false;
0680 4      END;
0681 4      END;
0682 4      END;
0683 4
0684 4      /JOURNAL
0685 4
0686 4      begin
0687 4      global set$gl_journaling;
0688 4      if .set$gl_journaling
0689 4      then
0690 4      IF cli$present(%ASCII 'JOURNAL')
0691 4      THEN
0692 4      BEGIN
0693 4      setfile$flags[qual_journal] = 1;
0694 4
0695 4      !
0696 4
```

```
0697 4      /JOURNAL=AI=ai_journal_name
0698 4
0699 4      status = cli$present( %ASCID 'JOURNAL.AI', desc );
0700 4      IF .status NEQU cli$_absent
0701 4      THEN
0702 4          BEGIN
0703 4              setfile$flags[jrnl_specified_ai] = 1;
0704 4              IF .status
0705 4              THEN
0706 4                  setfile$flags[jrnl_ai] = 1
0707 4              ELSE if .status EQLU cli$_negated
0708 4              THEN
0709 4                  setfile$flags[jrnl_ai] = 0;
0710 4              IF cli$get_value( %ASCID 'JOURNAL.AI', desc )
0711 4              THEN
0712 4                  BEGIN
0713 4                      IF .desc[dsc$w_length] GTRU cjf$sc_mxjnlname
0714 4                      THEN
0715 4                          SIGNAL( set$badvalue, 1, desc );
0716 4                          setfile$flags[jrnl_ai name] = 1;
0717 4                          ai_jnl_desc[dsc$w_length] = .desc[dsc$w_length];
0718 4                          CH$MOVE( .desc[dsc$w_length], .desc[dsc$a_pointer], ai_jnl_name );
0719 4                      END;
0720 4                  END;
0721 4              END;
0722 4
0723 4      /JOURNAL=AT=at_journal_name
0724 4
0725 4      status = cli$present( %ASCID 'JOURNAL.AT', desc );
0726 4      IF .status NEQU cli$_absent
0727 4      THEN
0728 4          BEGIN
0729 4              setfile$flags[jrnl_specified_at] = 1;
0730 4              IF .status
0731 4              THEN
0732 4                  setfile$flags[jrnl_at] = 1
0733 4              ELSE if .status EQLU cli$_negated
0734 4              THEN
0735 4                  setfile$flags[jrnl_at] = 0;
0736 4              IF cli$get_value( %ASCID 'JOURNAL.AT', desc )
0737 4              THEN
0738 4                  BEGIN
0739 4                      IF .desc[dsc$w_length] GTRU cjf$sc_mxjnlname
0740 4                      THEN
0741 4                          SIGNAL( set$badvalue, 1, desc );
0742 4                          setfile$flags[jrnl_at name] = 1;
0743 4                          at_jnl_desc[dsc$w_length] = .desc[dsc$w_length];
0744 4                          CH$MOVE( .desc[dsc$w_length], .desc[dsc$a_pointer], at_jnl_name );
0745 4                      END;
0746 4                  END;
0747 4              END;
0748 4
0749 4      /JOURNAL=BI=bi_journal_name
0750 4
0751 4      status = cli$present( %ASCID 'JOURNAL.BI', desc );
0752 4      IF .status NEQU cli$_absent
0753 4      THEN
```

```
760 0754 5 BEGIN
761 0755 setfile$flags[jrnl_specified_bi] = 1;
762 0756 IF .status
763 0757 THEN
764 0758     setfile$flags[jrnl_bi] = 1
765 0759 ELSE IF .status EQLU cli$_negated
766 0760 THEN
767 0761     setfile$flags[jrnl_bi] = 0;
768 0762 IF cli$get_value( %ASCII 'JOURNAL.BI', desc )
769 0763 THEN
770 0764 BEGIN
771 0765     IF .desc[dsc$_length] GTRU cjf$_mxjnl_nam1
772 0766 THEN
773 0767         SIGNAL( set$_badvalue, 1, desc );
774 0768     setfile$flags[jrnl_bi_name] = 1;
775 0769     bi_jnl_desc[dsc$_length] = .desc[dsc$_length];
776 0770     CHSMOVE( .desc[dsc$_length], .desc[dsc$_pointer], bi_jnl_name );
777 0771     END;
778 0772 END;
779 0773
780 0774 /JOURNAL=RU
781 0775
782 0776 status = cli$present( %ASCII 'JOURNAL.RU', desc );
783 0777 IF .status NEQU cli$_absent
784 0778 THEN
785 0779 BEGIN
786 0780     setfile$flags[jrnl_specified_ru] = 1;
787 0781     IF .status
788 0782 THEN
789 0783         setfile$flags[jrnl_ru] = 1
790 0784 ELSE IF .status EQLU cli$_negated
791 0785 THEN
792 0786         setfile$flags[jrnl_ru] = 0;
793 0787     END;
794 0788
795 0789 /JOURNAL=NEVER_RU
796 0790
797 0791 status = cli$present( %ASCII 'JOURNAL.NEVER_RU', desc );
798 0792 IF .status NEQU cli$_absent
799 0793 THEN
800 0794 BEGIN
801 0795     setfile$flags[jrnl_specified_never_ru] = 1;
802 0796     IF .status
803 0797 THEN
804 0798         setfile$flags[jrnl_never_ru] = 1
805 0799 ELSE IF .status EQLU cli$_negated
806 0800 THEN
807 0801         setfile$flags[jrnl_never_ru] = 0;
808 0802     END;
809 0803
810 0804 /JOURNAL=ONLY_RU
811 0805
812 0806 status = cli$present( %ASCII 'JOURNAL.ONLY_RU', desc );
813 0807 IF .status NEQU cli$_absent
814 0808
815 0809
816 0810
```



```
874      THEN
875      BEGIN
876      SIGNAL(.status);
877      RETURN false;
878      END;
879      END;
880      END;
881      /PROTECTION
882      IF cli$present(%ASCID 'PROTECTION')
883      THEN
884      BEGIN
885      LOCAL
886      prot_desc : $BLOCK[dsc$c_s_bln]; ! Protection descriptor
887      setfile$flags[qual_protection] = 1;
888
889      Parse the /PROTECTION= value
890
891      $init_dyndesc(prot_desc); ! Make a dynamic descriptor
892
893      IF cli$present(%ASCID 'PROTECTION.SYSTEM')
894      THEN
895      BEGIN
896      setpro_mask = .setpro_mask OR %X'000F';
897      IF cli$get_value(%ASCID 'PROTECTION.SYSTEM', prot_desc)
898      THEN setpro_prot = parse_class(prot_desc);
899      END;
900      IF cli$present(%ASCID 'PROTECTION.OWNER')
901      THEN
902      BEGIN
903      setpro_mask = .setpro_mask OR %X'00F0';
904      IF cli$get_value(%ASCID 'PROTECTION.OWNER', prot_desc)
905      THEN setpro_prot = .setpro_prot OR parse_class(prot_desc)^4;
906      END;
907      IF cli$present(%ASCID 'PROTECTION.GROUP')
908      THEN
909      BEGIN
910      setpro_mask = .setpro_mask OR %X'0F00';
911      IF cli$get_value(%ASCID 'PROTECTION.GROUP', prot_desc)
912      THEN setpro_prot = .setpro_prot OR parse_class(prot_desc)^8;
913      END;
914      IF cli$present(%ASCID 'PROTECTION.WORLD')
915      THEN
916      BEGIN
917      setpro_mask = .setpro_mask OR %X'F000';
918      IF cli$get_value(%ASCID 'PROTECTION.WORLD', prot_desc)
919      THEN setpro_prot = .setpro_prot OR parse_class(prot_desc)^12;
920      END;
921
922      Complement the protection value since at this point, a bit set true
923      indicates that we want to ALLOW access, while the system convention
924      is that a bit set true indicates that we want to DENY access.
```

```
0931 0925 IF .setpro_mask NEQ 0      ! If any protections specified
0932 0926 THEN setpro_prot = NOT .setpro_prot; ! then get the complement
0933 0927
0934 0928
0935 0929 Now save the command level protection in the protection
0936 0930 area. If the user did not supply a command level protection then
0937 0931 the global_mask will have a value of zero.
0938 0932
0939 0933 global_mask = .setpro_mask;
0940 0934 global_prot = .setpro_prot;
0941 0935 END;
0942 0936
0943 0937 /REMOVE
0944 0938
0945 0939 IF cli$present(%ASCII 'REMOVE')
0946 0940 THEN setfile$flags[qual_remove] = 1;
0947 0941
0948 0942
0949 0943 /TRUNCATE
0950 0944
0951 0945 IF cli$present(%ASCII 'TRUNCATE')
0952 0946 THEN setfile$flags[qual_trunc] = 1;
0953 0947
0954 0948
0955 0949 /UNLOCK
0956 0950
0957 0951 IF cli$present(%ASCII 'UNLOCK')
0958 0952 THEN setfile$flags[qual_unlock] = 1;
0959 0953
0960 0954
0961 0955 /VERSION_LIMIT
0962 0956
0963 0957 IF cli$present(%ASCII 'VERSION_LIMIT')
0964 0958 THEN
0965 0959 BEGIN
0966 0960 setfile$flags[qual_vrsn] = 1; ! Show that /VERSION specified
0967 0961 vrsn_value = 32767; ! Set to the default
0968 0962 IF cli$get_value(%ASCII 'VERSION_LIMIT', desc)
0969 0963 THEN
0970 0964 BEGIN
0971 0965 IF NOT lib$cvt_dtb(.desc[dsc$w_length],
0972 0966 .desc[dsc$a_pointer],
0973 0967 vrsn_value)
0974 0968 THEN
0975 0969 BEGIN
0976 0970 SIGNAL(set$syntax, 1, desc);
0977 0971 RETURN false;
0978 0972 END;
0979 0973
0980 0974 IF .vrsn_value EQL 0
0981 0975 THEN
0982 0976 vrsn_value = 32767;
0983 0977
0984 0978 IF .vrsn_value LSS 0
0985 0979 OR .vrsn_value GTR 32767
0986 0980 THEN
0987 0981 (SIGNAL(set$valerr); RETURN false);
```

```
... 988
... 989
... 990
... 991
... 992

0982 3      END:
0983 3      END:
0984 3      END:
0985 2      RETURN true;
0986 1      END;
```

```
.PSECT SPLITS,NOWRT,NOEXE,2

      00 00 50 55 4B 43 41 42 0000C P.AAD: .ASCII \BACKUP\<0><0>
      010E0006 00014 P.AAC: .LONG 17694726
      00000000 00018 P.AAC: .ADDRESS P.AAD
      00 4D 52 49 46 4E 4F 43 0001C P.AAF: .ASCII \CONFIRM\<0>
      010E0007 00024 P.AAE: .LONG 17694727
      00000000 00028 P.AAF: .ADDRESS P.AAF
00 00 4B 43 45 48 43 5F 41 54 41 44 0002C P.AAH: .ASCII \DATA_CHECK\<0><0>
      010E000A 00038 P.AAG: .LONG 17694730
      00000000 0003C P.AAH: .ADDRESS P.AAH
00 00 4B 43 45 48 43 5F 41 54 41 44 00040 P.AAJ: .ASCII \DATA_CHECK\<0><0>
      010E000A 0004C P.AAI: .LONG 17694730
      00000000 00050 P.AAJ: .ADDRESS P.AAJ
      45 54 49 52 57 00054 P.AAK: .ASCII \WRITE\
      00059 P.AAK: .BLKB 3
      00 00 4B 43 45 48 43 5F 44 41 45 52 0005C P.AAL: .ASCII \READ\
      010E000A 00060 P.AAN: .ASCII \DATA_CHECK\<0><0>
      00000000 0006C P.AAM: .LONG 17694730
      00 00 00 52 45 54 4E 45 00070 P.AAM: .ADDRESS P.AAM
      010E0005 00074 P.AAP: .ASCII \ENTER\<0><0><0>
      00000000 0007C P.AAO: .LONG 17694725
      00 45 4C 49 46 5F 46 4F 5F 44 4E 45 00080 P.AAP: .ADDRESS P.AAP
      010E000B 00084 P.AAR: .ASCII \END OF FILE\<0>
      00000000 00090 P.AAQ: .LONG 17694731
      45 54 45 4C 45 44 5F 4E 4F 5F 45 53 41 52 45 00094 P.AAR: .ADDRESS P.AAR
      010E000B 00098 P.AAT: .ASCII \ERASE_ON_DELETE\<0>
      00000000 000A7 P.AAT: .ADDRESS P.AAT
      010E000F 000AB P.AAS: .LONG 17694735
      00000000 000AC P.AAT: .ADDRESS P.AAT
45 54 41 44 5F 4E 4F 49 54 41 52 49 50 58 45 000B0 P.AAV: .ASCII \EXPIRATION_DATE\<0>
      00000000 000BF P.AAV: .ADDRESS P.AAV
      010E000F 000C0 P.AAU: .LONG 17694735
      00000000 000C4 P.AAV: .ADDRESS P.AAV
45 54 41 44 5F 4E 4F 49 54 41 52 49 50 58 45 000C8 P.AAX: .ASCII \EXPIRATION_DATE\<0>
      00000000 000D7 P.AAX: .ADDRESS P.AAX
      010E000F 000DB P.AAW: .LONG 17694735
      00000000 000DC P.AAX: .ADDRESS P.AAX
      00 00 00 4E 4F 49 53 4E 45 54 58 45 000E0 P.AAZ: .ASCII \EXTENSION\<0><0><0>
      010E0009 000EC P.AAY: .LONG 17694729
      00000000 000F0 P.AAZ: .ADDRESS P.AAZ
      00 00 00 4E 4F 49 53 4E 45 54 58 45 000F4 P.ABB: .ASCII \EXTENSION\<0><0><0>
      010E0009 00100 P.ABA: .LONG 17694729
      00000000 00104 P.ABB: .ADDRESS P.ABB
00 53 52 45 46 46 55 42 5F 4C 41 42 4F 4C 47 00108 P.ABD: .ASCII \GLOBAL_BUFFERS\<0><0>
      00000000 00117 P.ABD: .ADDRESS P.ABD
      010E000E 00118 P.ABC: .LONG 17694734
      00000000 0011C P.ABD: .ADDRESS P.ABD
00 53 52 45 46 46 55 42 5F 4C 41 42 4F 4C 47 00120 P.ABF: .ASCII \GLOBAL_BUFFERS\<0><0>
```



```
00 0012F
010E000E 00130 P.ABE: .LONG 17694734
00000000 00134 .ADDRESS P.ABF
00 4C 41 4E 52 55 4F 4A 00138 P.ABH: .ASCII \JOURNAL\<0>
010E0007 00140 P.ABG: .LONG 17694727
00000000 00144 .ADDRESS P.ABH
00 00 49 41 2E 4C 41 4E 52 55 4F 4A 00148 P.ABJ: .ASCII \JOURNAL.AI\<0><0>
010E000A 00154 P.ABI: .LONG 17694730
00000000 00158 .ADDRESS P.ABJ
00 00 49 41 2E 4C 41 4E 52 55 4F 4A 0015C P.ABL: .ASCII \JOURNAL.AI\<0><0>
010E000A 00168 P.ABK: .LONG 17694730
00000000 0016C .ADDRESS P.ABL
00 00 54 41 2E 4C 41 4E 52 55 4F 4A 00170 P.ABN: .ASCII \JOURNAL.AT\<0><0>
010E000A 0017C P.ABM: .LONG 17694730
00000000 00180 .ADDRESS P.ABN
00 00 54 41 2E 4C 41 4E 52 55 4F 4A 00184 P.ABP: .ASCII \JOURNAL.AT\<0><0>
010E000A 00190 P.ABO: .LONG 17694730
00000000 00194 .ADDRESS P.ABP
00 00 49 42 2E 4C 41 4E 52 55 4F 4A 00198 P.ABR: .ASCII \JOURNAL.BI\<0><0>
010E000A 001A4 P.ABQ: .LONG 17694730
00000000 001A8 .ADDRESS P.ABR
00 00 49 42 2E 4C 41 4E 52 55 4F 4A 001AC P.ABT: .ASCII \JOURNAL.BI\<0><0>
010E000A 001B8 P.ABS: .LONG 17694730
00000000 001BC .ADDRESS P.ABT
00 00 55 52 2E 4C 41 4E 52 55 4F 4A 001C0 P.ABV: .ASCII \JOURNAL.RU\<0><0>
010E000A 001CC P.ABU: .LONG 17694730
00000000 001D0 .ADDRESS P.ABV
52 5F 52 45 56 45 4E 2E 4C 41 4E 52 55 4F 4A 001D4 P.ABX: .ASCII \JOURNAL.NEVER_RU\
55 55 001E3
010E0010 001E4 P.ABW: .LONG 17694736
00000000 001E8 .ADDRESS P.ABX
55 52 5F 59 4C 4E 4F 2E 4C 41 4E 52 55 4F 4A 001EC P.ABZ: .ASCII \JOURNAL.ONLY_RU\<0>
00 001FB
010E000F 001FC P.ABY: .LONG 17694735
00000000 00200 .ADDRESS P.ABZ
00 47 4F 4C 00204 P.ACB: .ASCII \LOG\<0>
010E0003 00208 P.ACA: .LONG 17694723
00000000 0020C .ADDRESS P.ACB
00 59 52 4F 54 43 45 52 49 44 4F 4E 00210 P.ACD: .ASCII \NODIRECTORY\<0>
010E000B 0021C P.ACC: .LONG 17694731
00000000 00220 .ADDRESS P.ACD
00 00 00 43 49 55 5F 52 45 4E 57 4F 00224 P.ACF: .ASCII \OWNER UIC\<0><0><0>
010E0009 00230 P.ACE: .LONG 17694729
00000000 00234 .ADDRESS P.ACF
00 00 00 43 49 55 5F 52 45 4E 57 4F 00238 P.ACH: .ASCII \OWNER UIC\<0><0><0>
010E0009 00244 P.ACG: .LONG 17694729
00000000 00248 .ADDRESS P.ACH
0304 0004 0024C P.ACI: .WORD 4, 772
00000000 00250 .ADDRESS UIC_VALUE
00000000 00254 .LONG 0, 0
54 4E 45 52 41 50 0025C P.ACJ: .ASCII \PARENT\
00000000 00262 .BLKB 2
00 00 4E 4F 49 54 43 45 54 4F 52 50 00264 P.ACL: .ASCII \PROTECTION\<0><0>
010E000A 00270 P.ACK: .LONG 17694730
00000000 00274 .ADDRESS P.ACL
54 53 59 53 2E 4E 4F 49 54 43 45 54 4F 52 50 00278 P.ACN: .ASCII \PROTECTION.SYSTEM\<0><0><0>
00 00 00 4D 45 00287
```

54	53	59	53	2E	4E	4F	49	54	43	45	54	4F	52	50	00000000	010E0011	0028C	P.ACM:	.LONG	17694737
										00	00	00	4D	45	00000000	00290		.ADDRESS	P.ACM	
															010E0011	00294	P.ACP:	.ASCII	\PROTECTION.SYSTEM\<0><0><0>	
															00000000	002A3				
45	4E	57	4F	2E	4E	4F	49	54	43	45	54	4F	52	50	00000000	002A8	P.ACO:	.LONG	17694737	
															00000000	002AC		.ADDRESS	P.ACP	
															010E0010	002B0	P.ACR:	.ASCII	\PROTECTION.OWNER\	
															00000000	002BF				
45	4E	57	4F	2E	4E	4F	49	54	43	45	54	4F	52	50	00000000	002C0	P.ACQ:	.LONG	17694736	
															00000000	002C4		.ADDRESS	P.ACR	
															010E0010	002C8	P.ACT:	.ASCII	\PROTECTION.OWNER\	
															00000000	002D7				
55	4F	52	47	2E	4E	4F	49	54	43	45	54	4F	52	50	00000000	002D8	P.ACS:	.LONG	17694736	
															00000000	002DC		.ADDRESS	P.ACT	
															010E0010	002E0	P.ACV:	.ASCII	\PROTECTION.GROUP\	
															00000000	002EF				
55	4F	52	47	2E	4E	4F	49	54	43	45	54	4F	52	50	00000000	002F0	P.ACU:	.LONG	17694736	
															00000000	002F4		.ADDRESS	P.ACV	
															010E0010	002F8	P.ACX:	.ASCII	\PROTECTION.GROUP\	
															00000000	00307				
4C	52	4F	57	2E	4E	4F	49	54	43	45	54	4F	52	50	00000000	00308	P.ACW:	.LONG	17694736	
															00000000	0030C		.ADDRESS	P.ACX	
															010E0010	00310	P.ACZ:	.ASCII	\PROTECTION.WORLD\	
															00000000	0031F				
4C	52	4F	57	2E	4E	4F	49	54	43	45	54	4F	52	50	00000000	00320	P.ACY:	.LONG	17694736	
															00000000	00324		.ADDRESS	P.ACZ	
															010E0010	00328	P.ADB:	.ASCII	\PROTECTION.WORLD\	
															00000000	00337				
															010E0010	00338	P.ADA:	.LONG	17694736	
															00000000	0033C		.ADDRESS	P.ADB	
															00 00 45 56 4F 4D 45 52	00340	P.ADD:	.ASCII	\REMOVE\<0><0>	
															010E0006	00348	P.ADC:	.LONG	17694726	
															00000000	0034C		.ADDRESS	P.ADD	
															45 54 41 43 4E 55 52 54	00350	P.ADF:	.ASCII	\TRUNCATE\	
															010E0008	00358	P.ADE:	.LONG	17694728	
															00000000	0035C		.ADDRESS	P.ADF	
															00 00 48 43 4F 4C 4E 55	00360	P.ADH:	.ASCII	\UNLOCK\<0><0>	
															010E0006	00368	P.ADG:	.LONG	17694726	
															00000000	0036C		.ADDRESS	P.ADH	
00	00	54	49	4D	49	4C	5F	4E	4F	49	53	52	45	56	00000000	00370	P.ADJ:	.ASCII	\VERSION_LIMIT\<0><0><0>	
															00	0037F				
															010E000D	00380	P.ADI:	.LONG	17694733	
															00000000	00384		.ADDRESS	P.ADJ	
00	0C	54	49	4D	49	4C	5F	4E	4F	49	53	52	45	56	00000000	00388	P.ADL:	.ASCII	\VERSION_LIMIT\<0><0><0>	
															00	00397				
															010E000D	00398	P.ADK:	.LONG	17694733	
															00000000	0039C		.ADDRESS	P.ADL	

.PSECT \$GLOBAL\$,NOEXE,2

00454 SET\$GL_JOURNALING::

.BLKB 4

.EXTRN SYS\$GETJPIW

.PSECT \$CODE\$,NOWRT,2

```
OFFC 00000 GET_QUALS:
      5B 00000000G 8F D0 00002 .WORD Save R2,R3,R4,R5,R6,R7,R8,R9,R10,R11 0526
      5A 00000000G 00 9E 00009 MOVL #CLIS_NEGATED, R11
      59 00000000G 00 9E 00010 MOVAB CLISGET_VALUE, R10
      58 00000000G EF 9E 00017 MOVAB CLISPRESENT, R9
      57 00000000G EF 9E 0001E MOVAB P.AAC, R8
      5E 00000000G 10 C2 00025 MOVAB SETFILESFLAGS, R7
      0B AE 020E0000 8F D0 00028 SUBL2 #16, SP
      0C AE D4 00030 MOVL #34471936, DESC 0538
      58 DD 00033 CLRL DESC+4
      69 01 FB 00035 PUSHL R8 0543
      56 50 D0 00038 CALLS #1, CLISPRESENT
      05 56 E9 0003B MOVL R0, STATUS
      67 02 88 0003E BLBC STATUS, 1$ 0544
      58 56 D1 00043 1$: BISB2 #2, SETFILESFLAGS 0545
      67 03 12 00046 BRB 2$
      69 04 88 00048 CMPL STATUS, R11 0546
      10 AB 9F 0004B 2$: BNEQ 2$
      69 01 FB 0004E BISB2 #4, SETFILESFLAGS 0547
      03 50 E9 00051 PUSHAB P.AAE 0552
      67 08 88 00054 CALLS #1, CLISPRESENT
      24 AB 9F 00057 BLBC R0, 3$
      69 01 FB 0005A BISB2 #8, SETFILESFLAGS 0553
      46 50 E9 0005D PUSHAB P.AAG 0558
      67 10 88 00060 CALLS #1, CLISPRESENT
      08 AE 9F 00063 BLBC R0, 9$
      38 AB 9F 00066 BISB2 #16, SETFILESFLAGS 0561
      6A 02 FB 00069 PUSHAB DESC 0562
      06 50 E8 0006C PUSHAB P.AAI
      04 A7 04 88 0006F CALLS #2, CLISGET_VALUE
      31 11 00073 BLBS R0, 4$
      54 D4 00075 BISB2 #4, SETFILESDFLAGS 0563
      40 AB 0C BE 08 AE 29 00077 BRB 9$
      06 12 0007E CLRL 1 0564
      04 A7 04 88 00080 CMPC3 DESC, @DESC+4, P.AAK 0566
      10 11 00084 BNEQ 6$
      48 AB 0C BE 08 AE 29 00086 BISB2 #4, SETFILESDFLAGS 0568
      03 13 0008D BRB 8$
      04 A7 04B1 31 0008F CMPC3 DESC, @DESC+4, P.AAL 0569
      08 AE 9F 00092 BEQL 7$
      58 AB 9F 00096 BISB2 #2, SETFILESDFLAGS 0571
      6A 02 FB 0009C PUSHAB DESC 0577
      04 50 E9 0009F PUSHAB P.AAM
      54 01 F3 000A2 CALLS #2, CLISGET_VALUE
      08 AE 9F 000A6 AOBLEQ #1, I, 5$
      68 AB 9F 000A9 PUSHAB DESC 0585
      6A 02 FB 000AC PUSHAB P.AAO
      22 50 E9 000AF CALLS #2, CLISGET_VALUE
      0C A7 10 88 000B2 BLBC R0, 10$
      0138 0C BE 08 AE 28 000B6 BISB2 #16, SETFILESFLAGS+2 0588
      013C C7 08 AE 3C 000BD MOVCL3 DESC, @DESC+4, RENAME_BUF 0589
      08 AE D0 000C3 MOVZWL DESC, FILE NAME 0592
      0C AE D0 000C9 MOVL DESC+4, FILE NAME+4 0593
      0C AE D4 000D1 MOVL #34471936, DESC 0594
      CLRL DESC+4
```

		7C	A8	9F	000D4	108:	PUSHAB	P.AAQ		0600
69			01	FB	000D7		CALLS	#1, CLISPRESNT		
03			50	E9	000DA		BLBC	R0, 118		
67			20	88	000DD		BISB2	#32, SETFILES\$FLAGS		0601
		0094	C8	9F	000E0	118:	PUSHAB	P.AAS		0606
69			01	FB	000E4		CALLS	#1, CLISPRESNT		
56			50	DD	000E7		MOVL	R0, STATUS		
06			56	E9	000EA		BLBC	STATUS, 128		0607
67		40	8F	88	000ED		BISB2	#64, SETFILES\$FLAGS		0608
			09	11	000F1		BRB	138		
58			56	D1	000F3	128:	CMPL	STATUS, R11		0609
			04	12	000F6		BNEQ	138		
67		80	8F	88	000F8		BISB2	#128, SETFILES\$FLAGS		0610
		00AC	C8	9F	000FC	138:	PUSHAB	P.AAU		0615
69			01	FB	00100		CALLS	#1, CLISPRESNT		
21			50	E9	00103		BLBC	R0, 148		
		08	AE	9F	00106		PUSHAB	DESC		0617
		00C4	C8	9F	00109		PUSHAB	P.AAW		
6A			02	FB	0010D		CALLS	#2, CLISGET_VALUE		
14			50	E9	00110		BLBC	R0, 148		
01			01	88	00113		BISB2	#1, SETFILES\$FLAGS+1		0620
		18	A7	9F	00117		PUSHAB	EXP VALUE		0621
		0C	AE	9F	0011A		PUSHAB	DESC		
00000000G	00		02	FB	0011D		CALLS	#2, LIB\$CVT_TIME		
	6E		50	E9	00124		BLBC	R0, 168		
		00D8	C8	9F	00127	148:	PUSHAB	P.AAY		0632
69			01	FB	0012B		CALLS	#1, CLISPRESNT		
38			50	E9	0012E		BLBC	R0, 158		
01			02	88	00131		BISB2	#2, SETFILES\$FLAGS+1		0635
20			05	DD	00135		MOVL	#5, EXTE_VALUE		0636
		08	AE	9F	00139		PUSHAB	DESC		0637
		00EC	C8	9F	0013C		PUSHAB	P.ABA		
6A			02	FB	00140		CALLS	#2, CLISGET_VALUE		
23			50	E9	00143		BLBC	R0, 158		
		20	A7	9F	00146		PUSHAB	EXTE_VALUE		0640
		10	AE	DD	00149		PUSHL	DESC, 4		0641
		10	AE	3C	0014C		MOVZWL	DESC, -(SP)		0640
00000000G	00		03	FB	00150		CALLS	#3, LIB\$CVT_DTB		
	38		50	E9	00157		BLBC	R0, 168		
	50	20	A7	DD	0015A		MOVL	EXTE_VALUE, R0		0648
			4A	19	0015E		BLSS	188		
0000FFFF	8F		50	D1	00160		CMPL	R0, #65535		0649
			41	14	00167		BGTR	188		
		0104	C8	9F	00169	158:	PUSHAB	P.ABC		0661
69			01	FB	0016D		CALLS	#1, CLISPRESNT		
52			50	E9	00170		BLBC	R0, 198		
		08	AE	9F	00173		PUSHAB	DESC		0663
		011C	C8	9F	00176		PUSHAB	P.ABE		
6A			02	FB	0017A		CALLS	#2, CLISGET_VALUE		
45			50	E9	0017D		BLBC	R0, 198		
01			04	88	00180		BISB2	#4, SETFILES\$FLAGS+1		0666
		24	A7	9F	00184		PUSHAB	GBUF_VALUE		0667
		10	AE	DD	00187		PUSHL	DESC, 4		0668
		10	AE	3C	0018A		MOVZWL	DESC, -(SP)		0667
00000000G	00		03	FB	0018E		CALLS	#3, LIB\$CVT_DTB		
	03		50	E9	00195	168:	BLBS	R0, 178		
		03A8	31	00198		BRW	568			

0000FFFF	8F	24	A7	D1	00198	178:	CMPL	GBUF_VALUE, #65535	0675
			05	14	001A3		BGTR	188	0676
		24	A7	D5	001A5		TSTL	GBUF_VALUE	0679
			1B	18	001A8		BGEQ	198	
		007711EA	8F	DD	001AA	188:	PUSHL	#7803370	
		0C	AE	9F	001B0		PUSHAB	DESC	
			01	DD	001B3		PUSHL	#1	
00000000G	00	007710FA	8F	DD	001B5		PUSHL	#7803130	
			04	FB	001BB		CALLS	#4, LIB\$SIGNAL	
			03BF	31	001C2		BRW	628	0680
	03	0454	C7	E8	001C5	198:	BLBS	SET\$GL_JOURNALING, 218	0689
			01C0	31	001CA	208:	BRW	398	
		012C	C8	9F	001CD	218:	PUSHAB	P.ABG	0691
	69		01	FB	001D1		CALLS	#1, CLISPRESENT	
	F3		50	E9	001D4		BLBC	R0, 208	
01	A7		08	88	001D7		BISB2	#8, SETFILES\$FLAGS+1	0694
		08	AE	9F	001DB		PUSHAB	DESC	0699
		0140	C8	9F	001DE		PUSHAB	P.ABI	
	69		02	FB	001E2		CALLS	#2, CLISPRESENT	
	56		50	D0	001E5		MOVL	R0, STATUS	
00000000G	8F		56	D1	001E8		CMPL	STATUS, #CLIS_ABSENT	0700
			4D	13	001EF		BEQL	258	
08	A7		04	88	001F1		BISB2	#4, SETFILES\$JFLAGS	0703
	06		56	E9	001F5		BLBC	STATUS, 228	0704
08	A7		02	88	001F8		BISB2	#2, SETFILES\$JFLAGS	0706
			09	11	001FC		BRB	238	
	5B		56	D1	001FE	228:	CMPL	STATUS, R11	0707
			04	12	00201		BNEQ	238	
08	A7		02	8A	00203		BICB2	#2, SETFILES\$JFLAGS	0709
		08	AE	9F	00207	238:	PUSHAB	DESC	0710
		0154	C8	9F	0020A		PUSHAB	P.ABK	
	6A		02	FB	0020E		CALLS	#2, CLISGET_VALUE	
	2A		50	E9	00211		BLBC	R0, 258	
	10		AE	B1	00214		CMPL	DESC, #16	0713
		08	12	1B	00218		BLEQU	248	
		08	AE	9F	0021A		PUSHAB	DESC	0715
			01	DD	0021D		PUSHL	#1	
		00771112	8F	DD	0021F		PUSHL	#7803154	
00000000G	00		03	FB	00225		CALLS	#3, LIB\$SIGNAL	
	09		20	88	0022C	248:	BISB2	#32, SETFILES\$JFLAGS+1	0716
	0170		AE	B0	00230		MOVW	DESC, AI_JNL_DESC	0717
0140	C7		08	AE	28	00236	MOVW	DESC, @DESC+4, AI_JNL_NAME	0718
	0C		08	AE	9F	0023E	PUSHAB	DESC	0725
		0168	C8	9F	00241	258:	PUSHAB	P.ABM	
	69		02	FB	00245		CALLS	#2, CLISPRESENT	
	56		50	D0	00248		MOVL	R0, STATUS	
00000000G	8F		56	D1	0024B		CMPL	STATUS, #CLIS_ABSENT	0726
			4E	13	00252		BEQL	298	
08	A7		10	88	00254		BISB2	#16, SETFILES\$JFLAGS	0729
	06		56	E9	00258		BLBC	STATUS, 268	0730
08	A7		08	88	0025B		BISB2	#8, SETFILES\$JFLAGS	0732
			09	11	0025F		BRB	278	
	5B		56	D1	00261	268:	CMPL	STATUS, R11	0733
			04	12	00264		BNEQ	278	
08	A7		08	8A	00266		BICB2	#8, SETFILES\$JFLAGS	0735
		08	AE	9F	0026A	278:	PUSHAB	DESC	0736
		017C	C8	9F	0026D		PUSHAB	P.ABO	

		6A		02	FB	00271	CALLS	#2, CLISGET_VALUE	
		2B		50	E9	00274	BLBC	R0, 298	
		10	08	AE	B1	00277	CMPL	DESC, #16	0739
			08	12	1B	0027B	BLEQU	288	
				AE	9F	0027D	PUSHAB	DESC	0741
				01	DD	00280	PUSHL	#1	
			00771112	8F	DD	00282	PUSHL	#7803154	
	00000000G	00		03	FB	00288	CALLS	#3, LIBSSIGNAL	
	09	A7	40	8F	88	0028F	BISB2	#64, SETFILESJFLAGS+1	0742
	0178	C7	08	AE	B0	00294	MOVW	DESC, AT_JNL_DESC	0743
0150	C7	0C	08	AE	28	0029A	MOVW3	DESC, @DESC+4, AT_JNL_NAME	0744
			08	AE	9F	002A2	PUSHAB	DESC	0751
			0190	C8	9F	002A5	PUSHAB	P.ABQ	
		69		02	FB	002A9	CALLS	#2, CLISPRESENT	
		56		50	DD	002AC	MOVL	R0, STATUS	
	00000000G	8F		56	D1	002AF	CMPL	STATUS, #CLIS_ABSENT	0752
			40	4F	13	002B6	BEQL	338	
	08	A7		8F	88	002B8	BISB2	#64, SETFILESJFLAGS	0755
		06		56	E9	002BD	BLBC	STATUS, 308	0756
	08	A7		20	88	002CC	BISB2	#32, SETFILESJFLAGS	0758
				09	11	002C4	BRB	318	
		5B		56	D1	002C6	CMPL	STATUS, R11	0759
				04	12	002C9	BNEQ	318	
	08	A7		20	8A	002CB	BICB2	#32, SETFILESJFLAGS	0761
			08	AE	9F	002CF	PUSHAB	DESC	0762
			01A4	C8	9F	002D2	PUSHAB	P.ABS	
		6A		02	FB	002D6	CALLS	#2, CLISGET_VALUE	
		2B		50	E9	002D9	BLBC	R0, 338	
		10	08	AE	B1	002DC	CMPL	DESC, #16	0765
			08	12	1B	002E0	BLEQU	328	
				AE	9F	002E2	PUSHAB	DESC	0767
				01	DD	002E5	PUSHL	#1	
			00771112	8F	DD	002E7	PUSHL	#7803154	
	00000000G	00		03	FB	002ED	CALLS	#3, LIBSSIGNAL	
	09	A7	80	8F	88	002F4	BISB2	#128, SETFILESJFLAGS+1	0768
	0180	C7	08	AE	B0	002F9	MOVW	DESC, BI_JNL_DESC	0769
0160	C7	0C	08	AE	28	002FF	MOVW3	DESC, @DESC+4, BI_JNL_NAME	0770
			08	AE	9F	00307	PUSHAB	DESC	0777
			01B8	C8	9F	0030A	PUSHAB	P.ABU	
		69		02	FB	0030E	CALLS	#2, CLISPRESENT	
		56		50	DD	00311	MOVL	R0, STATUS	
	00000000G	8F		56	D1	00314	CMPL	STATUS, #CLIS_ABSENT	0778
				18	13	00318	BEQL	358	
	09	A7		01	88	0031D	BISB2	#1, SETFILESJFLAGS+1	0781
		07		56	E9	00321	BLBC	STATUS, 348	0782
	08	A7	80	8F	88	00324	BISB2	#128, SETFILESJFLAGS	0784
				0A	11	00329	BRB	358	
		5B		56	D1	0032B	CMPL	STATUS, R11	0785
				05	12	0032E	BNEQ	358	
	08	A7	80	8F	8A	00330	BICB2	#128, SETFILESJFLAGS	0787
			08	AE	9F	00335	PUSHAB	DESC	0793
			01D0	C8	9F	00338	PUSHAB	P.ABW	
		69		02	FB	0033C	CALLS	#2, CLISPRESENT	
		56		50	DD	0033F	MOVL	R0, STATUS	
	00000000G	8F		56	D1	00342	CMPL	STATUS, #CLIS_ABSENT	0794
				16	13	00349	BEQL	378	
	09	A7		10	88	0034B	BISB2	#16, SETFILESJFLAGS+1	0797

09	06		56	E9	0034F	BLBC	STATUS, 368	0798		
	A7		08	88	00352	BISB2	#8, SETFILESJFLAGS+1	0800		
	5B		09	11	00356	BRB	378			
			56	D1	00358	368:	CMPL	STATUS, R11	0801	
09	A7		04	12	0035B	BNEQ	378			
			08	8A	0035D	BICB2	#8, SETFILESJFLAGS+1	0803		
		08	AE	9F	00361	378:	PUSHAB	DESC	0809	
		01E8	C8	9F	00364	PUSHAB	P.ABY			
	69		02	FB	00368	CALLS	#2, CLISPRESNT			
	56		50	D0	0036B	MOVL	R0, STATUS			
00000000G	8F		56	D1	0036E	CMPL	STATUS, #CLIS_ABSENT	0810		
			16	13	00375	BEQL	398			
09	A7		04	88	00377	BISB2	#4, SETFILESJFLAGS+1	0813		
	06		56	E9	0037B	BLBC	STATUS, 388	0814		
09	A7		02	88	0037E	BISB2	#2, SETFILESJFLAGS+1	0816		
			09	11	00382	BRB	398			
	5B		56	D1	00384	388:	CMPL	STATUS, R11	0817	
			04	12	00387	BNEQ	398			
09	A7		02	8A	00389	BICB2	#2, SETFILESJFLAGS+1	0819		
		01F4	C8	9F	0038D	398:	PUSHAB	P.ACA	0828	
	69		01	FB	00391	CALLS	#1, CLISPRESNT			
01	A7		50	F0	00394	INSV	R0, #4, #1, SETFILESJFLAGS+1	0833		
		0208	C8	9F	0039A	PUSHAB	P.ACC			
	69		01	FB	0039E	CALLS	#1, CLISPRESNT			
	04		50	E9	003A1	BLBC	R0, 408			
01	A7		20	88	003A4	BISB2	#32, SETFILESJFLAGS+1	0834		
		021C	C8	9F	003AB	408:	PUSHAB	P.ACE	0839	
	69		01	FB	003AC	CALLS	#1, CLISPRESNT			
	5A		50	E9	003AF	BLBC	R0, 458			
01	A7		8F	88	003B2	BISB2	#64, SETFILESJFLAGS+1	0842		
		40	AE	9F	003B7	PUSHAB	DESC	0843		
		08	C8	9F	003BA	PUSHAB	P.ACG			
	6A	0230	02	FB	003BE	CALLS	#2, CLISGET_VALUE			
	1F		50	E8	003C1	BLBS	R0, 418			
			7E	7C	003C4	CLRQ	-(SP)	0852		
		08	AE	9F	003C6	PUSHAB	IOSB			
		0238	C8	9F	003C9	PUSHAB	P.ACI			
			7E	7C	003CD	CLRQ	-(SP)			
			7E	D4	003CF	CLRL	-(SP)			
	00000000G	00	07	FB	003D1	CALLS	#7, SYSSGETJPIW			
		56	50	D0	003D8	MOVL	R0, STATUS			
	29		56	E9	003DB	BLBC	STATUS, 448	0853		
	56		6E	3C	003DE	MOVZWL	IOSB, STATUS	0854		
			21	11	003E1	BRB	438	0855		
0248	C8	0C	BE	08	AE	29	003E3	418:	0864	
				07	12	003EB	BNEQ	428		
	01	A7		80	8F	88	003ED	BISB2	#128, SETFILESJFLAGS+1	0866
				18	11	003F2	BRB	458		
			28	A7	9F	003F4	428:	PUSHAB	UIC VALUE	0867
		0C	AE	9F	003F7	PUSHAB	DESC			
	00000000G	00	02	FB	003FA	CALLS	#2, PARSE UIC			
		56	50	D0	00401	MOVL	R0, STATUS			
	05		56	E8	00404	438:	BLBS	STATUS, 458		
			56	DD	00407	448:	PUSHL	STATUS	0870	
			0168	31	00409	BRW	608			
		025C	C8	9F	0040C	458:	PUSHAB	P.ACK	0878	
	69		01	FB	00410	CALLS	#1, CLISPRESNT			

03	50	FB	00413	BLBS	R0, 468	
02	A7	00CB	31 00416	BRW	528	
6E	020E0000	01	88 00419	BISB2	#1, SETFILESFLAGS+2	0884
	04	8F	DD 0041D	MOVL	#34471936, PROT_DESC	0889
	0278	AE	DD 00424	CLRL	PROT_DESC+4	
69		C8	9F 00427	PUSHAB	P.ACM	0891
1D		01	FB 0042B	CALLS	#1, CLISPRESNT	
12	A7	50	E9 0042E	BLBC	R0, 478	
		0F	88 00431	BISB2	#15, SETPRO_MASK	0894
	0294	5E	DD 00435	PUSHL	SP	0895
6A		C8	9F 00437	PUSHAB	P.ACO	
0D		02	FB 0043B	CALLS	#2, CLISGET_VALUE	
		50	E9 0043E	BLBC	R0, 478	
00000000V	EF	5E	DD 00441	PUSHL	SP	0896
10	A7	01	FB 00443	CALLS	#1, PARSE_CLASS	
	02AC	50	B0 0044A	MOVW	R0, SETPRO_PROT	
69		C8	9F 0044E	PUSHAB	P.ACO	0898
21		01	FB 00452	CALLS	#1, CLISPRESNT	
12	A7	50	E9 00455	BLBC	R0, 488	
	F0	8F	88 00458	BISB2	#240, SETPRO_MASK	0901
	02C4	5E	DD 0045D	PUSHL	SP	0902
6A		C8	9F 0045F	PUSHAB	P.ACS	
10		02	FB 00463	CALLS	#2, CLISGET_VALUE	
		50	E9 00466	BLBC	R0, 488	
00000000V	EF	5E	DD 00469	PUSHL	SP	0903
10	A7	01	FB 0046B	CALLS	#1, PARSE_CLASS	
	02DC	10	C4 00472	MULL2	#16, R0	
69		50	AB 00475	BISW2	R0, SETPRO_PROT	
21		C8	9F 00479	PUSHAB	P.ACU	0905
13	A7	01	FB 0047D	CALLS	#1, CLISPRESNT	
	02F4	50	E9 00480	BLBC	R0, 498	
		0F	88 00483	BISB2	#15, SETPRO_MASK+1	0908
		5E	DD 00487	PUSHL	SP	0909
6A		C8	9F 00489	PUSHAB	P.ACW	
11		02	FB 0048D	CALLS	#2, CLISGET_VALUE	
		50	E9 00490	BLBC	R0, 498	
00000000V	EF	5E	DD 00493	PUSHL	SP	0910
50	10	01	FB 00495	CALLS	#1, PARSE_CLASS	
	030C	08	78 0049C	ASHL	#8, R0, R0	
69		50	AB 004A0	BISW2	R0, SETPRO_PROT	
22		C8	9F 004A4	PUSHAB	P.ACY	0912
13	A7	01	FB 004AB	CALLS	#1, CLISPRESNT	
	F0	50	E9 004AB	BLBC	R0, 508	
	0324	8F	88 004AE	BISB2	#240, SETPRO_MASK+1	0915
		5E	DD 004B3	PUSHL	SP	0916
6A		C8	9F 004B5	PUSHAB	P.ADA	
11		02	FB 004B9	CALLS	#2, CLISGET_VALUE	
		50	E9 004BC	BLBC	R0, 508	
00000000V	EF	5E	DD 004BF	PUSHL	SP	0917
50	10	01	FB 004C1	CALLS	#1, PARSE_CLASS	
	12	0C	78 004C8	ASHL	#12, R0, R0	
		50	AB 004CC	BISW2	R0, SETPRO_PROT	
10	A7	A7	3C 004D0	MOVZWL	SETPRO_MASK, R0	0925
		05	13 004D4	BEQL	518	
16	A7	A7	B2 004D6	WCOMW	SETPRO_PROT, SETPRO_PROT	0926
14	A7	50	B0 004DB	MOVW	R0, GLOBAL_MASK	0933
		A7	B0 004DF	MOVW	SETPRO_PROT, GLOBAL_PROT	0934

		0334	C8	9F	004E4	528:	PUSHAB	P.ADC	0939
	69		01	FB	004E8		CALLS	#1, CLISPRESNT	
	04		50	E9	004EB		BLBC	R0, 538	
02	A7		20	88	004EE		BISB2	#32, SETFILES\$FLAGS+2	0940
		0344	C8	9F	004F2	538:	PUSHAB	P.ADE	0945
	69		01	FB	004F6		CALLS	#1, CLISPRESNT	
	04		50	E9	004F9		BLBC	R0, 548	
02	A7		02	88	004FC		BISB2	#2, SETFILES\$FLAGS+2	0946
		0354	C8	9F	00500	548:	PUSHAB	P.ADG	0951
	69		01	FB	00504		CALLS	#1, CLISPRESNT	
	04		50	E9	00507		BLBC	R0, 558	
02	A7		04	88	0050A		BISB2	#4, SETFILES\$FLAGS+2	0952
		036C	C8	9F	0050E	558:	PUSHAB	P.ADI	0957
	69		01	FB	00512		CALLS	#1, CLISPRESNT	
	68		50	E9	00515		BLBC	R0, 618	
02	A7		08	88	00518		BISB2	#8, SETFILES\$FLAGS+2	0960
34	A7	7FFF	8F	3C	0051C		MOVZWL	#32767, VRSN_VALUE	0961
		08	AE	9F	00522		PUSHAB	DESC	0962
		0384	C8	9F	00525		PUSHAB	P.ADK	
	6A		02	FB	00529		CALLS	#2, CLISGET_VALUE	
	51		50	E9	0052C		BLBC	R0, 618	
		34	A7	9F	0052F		PUSHAB	VRSN_VALUE	0965
		10	AE	DD	00532		PUSHL	DESC74	0966
		10	AE	3C	00535		MOVZWL	DESC, -(SP)	0965
00000000G	00		03	FB	00539		CALLS	#3, LIB\$CVT_DTB	
	14		50	E8	00540		BLBS	R0, 578	
		08	AE	9F	00543	568:	PUSHAB	DESC	0970
			01	DD	00546		PUSHL	#1	
		007710FA	8F	DD	00548		PUSHL	#7803130	
00000000G	00		03	FB	0054E		CALLS	#3, LIB\$SIGNAL	
			2D	11	00555		BRB	628	0971
		34	A7	D5	00557	578:	TSTL	VRSN_VALUE	0974
			06	12	0055A		BNEQ	588	
34	A7	7FFF	8F	3C	0055C		MOVZWL	#32767, VRSN_VALUE	0976
	50	34	A7	D0	00562	588:	MOVL	VRSN_VALUE, R0	0978
			09	19	00566		BLSS	598	
00007FFF	8F		50	D1	00568		CMPL	R0, #32767	0979
			0F	15	0056F		BLEQ	618	
		007711EA	8F	DD	00571	598:	PUSHL	#7803370	0981
00000000G	00		01	FB	00577	608:	CALLS	#1, LIB\$SIGNAL	
			04	11	0057E		BRB	628	
	50		01	D0	00580	618:	MOVL	#1, R0	0985
				04	00583		RET		
			50	04	00584	628:	CLRL	R0	0986
				04	00586		RET		

; Routine Size: 1415 bytes, Routine Base: \$CODE\$ + 00E0

```

0987 1 ROUTINE parse_null_string (fab) : NOVALUE =
0988 1 ++
0989 1
0990 1 This routine parses the null string on the specified FAB to
0991 1 force RMS to clear all internal saved context.
0992 1
0993 1 --
0994 2 BEGIN
0995 2 MAP
0996 2     fab : REF $BBLOCK;
0997 2
0998 2 LOCAL
0999 2     nam : REF $BBLOCK;
1000 2
1001 2     nam = .fab[fab$1_nam];
1002 2     nam[nam$1_suctx] = 0;
1003 2     nam[nam$1_synchk] = 1;
1004 2     nam[nam$1_esl] = 0;
1005 2     nam[nam$1_ess] = 0;
1006 2     nam[nam$1_rsl] = 0;
1007 2     nam[nam$1_rss] = 0;
1008 2     nam[nam$1_esa] = 0;
1009 2     nam[nam$1_rsa] = 0;
1010 2     nam[nam$1_rlf] = 0;
1011 2     fab[fab$1_fns] = 0;
1012 2     fab[fab$1_dns] = 0;
1013 2     $parse(fab=.fab);
1014 2 RETURN;
1015 2 END;
1022

```

.EXTRN SYSSPARSE

0000 00000 PARSE_NULL STRING:

	51	04	AC	D0	00002	.WORD	Save nothing
	50	28	A1	D0	00006	MOVL	FAB, R1
33	A0	80	8F	8A	0000A	MOVL	40(R1), NAM
08	A0		08	88	0000F	BICB2	#128, 51(NAM)
		0A	A0	B4	00013	BISB2	#8, 8(NAM)
		02	A0	B4	00016	CLRW	10(NAM)
		04	A0	D4	00019	CLRW	2(NAM)
		0C	A0	7C	0001C	CLRL	4(NAM)
		34	A1	B4	0001F	CLRB	12(NAM)
			51	DD	00022	CLRW	52(R1)
00000000G	00		01	FB	00024	PUSHL	R1
			04	00	0002B	CALLS	#1, SYSSPARSE
						RET	

; Routine Size: 44 bytes, Routine Base: \$CODE\$ + 0667

0987
1001
1002
1003
1005
1007
1009
1008
1011
1013
1015

```
1024 1016 1 ROUTINE set_attributes (fab) =
1025 1017 1 **
1026 1018 1
1027 1019 1 This is the routine that actually accesses the file, and sets the
1028 1020 1 specified attributes. If an error occurs while attempting to set
1029 1021 1 the attributes, a message telling the user is issued, and any other
1030 1022 1 files are processed.
1031 1023 1
1032 1024 1 --
1033 1025 1 BEGIN
1034 1026 1
1035 1027 1 MAP
1036 1028 1     fab : REF SBBLOCK;           ! Define the fab
1037 1029 1
1038 1030 1
1039 1031 1 LOCAL
1040 1032 1     atr : BLOCKVECTOR[13,8,BYTE], ! Attribute control block
1041 1033 1     ptr,                          ! Pointer to attribute block
1042 1034 1     status,                       ! Status return
1043 1035 1     channel : WORD,              ! Channel number
1044 1036 1     desc : SBBLOCK[dsc$c s bln],  ! General descriptor
1045 1037 1     fib : SBBLOCK[fib$c length],  ! A FIB for the QIO
1046 1038 1     header : SBBLOCK[512],       ! The file header
1047 1039 1     item_list : $ITMLST DECL (ITEMS=1), ! Item list for GETDVI volume label
1048 1040 1     ai_jnl_ace : SBBLOCK[4+c]f$c_mx]nl_nam], ! ACE to contain AI journal name
1049 1041 1     at_jnl_ace : SBBLOCK[4+c]f$c_mx]nl_nam], ! ACE to contain AT journal name
1050 1042 1     bi_jnl_ace : SBBLOCK[4+c]f$c_mx]nl_nam], ! ACE to contain BI journal name
1051 1043 1     label_buffer : VECTOR[12,BYTE], ! Buffer for volume label
1052 1044 1     iosb : VECTOR[4,WORD];       ! I/O status block
1053 1045 1
1054 1046 1 BIND
1055 1047 1     recattr = header[fh2$w_recattr] : SBBLOCK[atr$s_recattr],
1056 1048 1
1057 1049 1     nam = .fab[fab$l_nam] : SBBLOCK; ! Define the name block
1058 1050 1
1059 1051 1 OWN
1060 1052 1     rmsjnlid_ace : SBBLOCK[id_ace$s_size], ! ACE to contain RMS jnl ident
1061 1053 1     old_dir_id : WORD,                   ! Old directory id
1062 1054 1     old_dir_seq : WORD,
1063 1055 1     old_dir_rvn : WORD;
1064 1056 1
1065 1057 1
1066 1058 1
1067 1059 1 If no more processing is to be performed, then simply return. This handles
1068 1060 1 the case of wildcards which do not return for each file to the routine
1069 1061 1 that called lib$file_scan.
1070 1062 1
1071 1063 1 IF .setfile$flags[qual_quit]
1072 1064 1 THEN RETURN true;
1073 1065 1
1074 1066 1
1075 1067 1 See if the common specified common qualifiers match this one.
1076 1068 1
1077 1069 1 conf_desc[dsc$a_pointer] = .nam[nam$l_rsa]; ! Get the resultant name
1078 1070 1 conf_desc[dsc$w_length] = .nam[nam$b_rsl]; ! of this file
1079 1071 1
1080 1072 1 status = lib$qual_file_match(context, ! Call the common qualifier routine
```

```
1081 1073 0.
1082 1074 conf_desc,
1083 1075 0.
1084 1076 0.
1085 1077 0);
1086 1078 IF NOT .status
1087 1079 THEN
1088 1080 BEGIN
1089 1081 IF .status NEQ (lib$filfmt
1090 1082 THEN SIGNAL(set$openin,
1091 1083 1,
1092 1084 conf_desc,
1093 1085 .status);
1094 1086 RETURN true;
1095 1087 END;
1096 1088
1097 1089
1098 1090
1099 1091
1100 1092
1101 1093 desc[dsc$w_length] = .nam[nam$b_dev];
1102 1094 desc[dsc$a_pointer] = .nam[nam$_dev];
1103 1095 IF NOT (status = $ASSIGN(
1104 1096 DEVNAM = desc
1105 1097 CHAN = channe())
1106 1098 THEN
1107 1099 BEGIN
1108 1100 file_error( set$openin,
1109 1101 .status, .fab);
1110 1102 RETURN true;
1111 1103 END;
1112 1104
1113 1105
1114 1106
1115 1107
1116 1108 desc[dsc$w_length] = fib$c_length;
1117 1109 desc[dsc$a_pointer] = fib;
1118 1110
1119 1111 CH$FILL(0, fib$c_length, fib);
1120 1112
1121 1113 fib[fib$_acctl] = fib$m_write OR
1122 1114 fib$m_noread OR
1123 1115 fib$m_nowrite;
1124 1116
1125 1117 fib[fib$w_fid_num] = .nam[nam$w_fid_num];
1126 1118 fib[fib$w_fid_seq] = .nam[nam$w_fid_seq];
1127 1119 fib[fib$w_fid_rvn] = .nam[nam$w_fid_rvn];
1128 1120
1129 1121
1130 1122
1131 1123
1132 1124
1133 1125
1134 1126
1135 1127
1136 1128
1137 1129
```

! If the status is false, check if it is the "correct" false errors that says "file didn't match qualifiers" Else signal it

! and DON'T process this file

Assign a channel to the file's device

Set up the descriptor to point to the device name

! Tell user why the assign failed And continue with other files

Access the file, reading the file's header

Re-use descriptor to point to FIB

Zero out the FIB

Set up the FIB

! Put in the file id

Unless some option was specified that requires the file header, don't bother to get it.

if (.setfile\$flags[qual_backup] OR .setfile\$flags[qual_nobackup] OR .setfile\$flags[qual_data] OR .setfile\$flags[qual_eof] OR


```
1138 .setfile$flags[qual_erase] OR
1139 .setfile$flags[qual_noerase] OR
1140 .setfile$flags[qual_expi] OR
1141 .setfile$flags[qual_exte] OR
1142 .setfile$flags[qual_gbuf] OR
1143 .setfile$flags[qual_journal] OR
1144 .setfile$flags[qual_nodi] OR
1145 .setfile$flags[qual_owner] OR
1146 .setfile$flags[qual_trunc] OR
1147 .setfile$flags[qual_vrsn])
1148 AND
1149 BEGIN
1150 IF .setfile$flags[qual_quit_mod]
1151 OR NOT .setfile$flags[qual_confirm]
1152 THEN true
1153 ELSE
1154 BEGIN
1155 status = lib$confirm_act(%ASCID 'Modify file !AS? [N] : ',
1156 %REF(conf_desc));
1157 IF NOT .status
1158 THEN
1159 BEGIN
1160 IF .status EQL lib$quipro
1161 THEN (setfile$flags[qual_quit] = 1; RETURN true)
1162 ELSE IF .status EQL lib$quiconact
1163 THEN (setfile$flags[qual_quit_mod] = 1; status = 1)
1164 ELSE IF .status NEQ lib$negans
1165 THEN SIGNAL(set$writeerr, 1, conf_desc, .status);
1166 END;
1167 .status
1168 END
1169 THEN
1170 BEGIN
1171 atr[0,atr$w_type] = atr$c_header; ! Get the file header
1172 atr[0,atr$w_size] = atr$s_header;
1173 atr[0,atr$l_addr] = header;
1174 atr[1,atr$w_type] = atr$c_indacety; ! Look for an rmsjnlid ACE
1175 atr[1,atr$w_size] = id_ace$s_size;
1176 atr[1,atr$l_addr] = rmsjnlid_ace;
1177 atr[2,0,0,32,0] = 0;
1178 rmsjnlid_ace[ace$b_size] = id_ace$s_size;
1179 rmsjnlid_ace[ace$b_type] = ace$c_jnlid;
1180 rmsjnlid_ace[ace$w_flags] = ace$m_hidden OR ace$m_protected;
1181 status = $IOIOW( CHAN = .channel,
1182 FUNC = IOS_ACCESS OR IOSM_ACCESS,
1183 IOSB = iosb,
1184 P1 = desc,
1185 P5 = atr);
1186 IF .status THEN status = .iosb[0];
1187 IF NOT .status
1188 THEN file_error(set$readerr,.status,.fab)
1189 ELSE
1190 BEGIN
```

```
1195 1187 4 |
1196 1188 4 | Check to see whether this is an ODS1 or an ODS2 file. If ODS1,
1197 1189 4 | copy the record attributes into the ODS2 location.
1198 1190 4 |
1199 1191 4 | IF .header[fh2$b_structlev] EQL 1
1200 1192 4 | THEN CH$MOVE(fat$c_length, header[fh1$w_recattr], header[fh2$w_recattr]);
1201 1193 4 |
1202 1194 4 |
1203 1195 4 | See if an rmsjnlid ACE already exists. Don't create a new one later, since
1204 1196 4 | one is good enough.
1205 1197 4 |
1206 1198 4 | IF .rmsjnlid_ace[ace$b_type] NEQ 0
1207 1199 4 | THEN
1208 1200 4 |     setfile$mflags[misc_already_rmsjnlid] = 1;
1209 1201 4 |
1210 1202 4 |
1211 1203 4 | Initialize the pointer to the attribute control block. The block
1212 1204 4 | will be built as we go, and the pointer shows where the next attribute
1213 1205 4 | should go in the block.
1214 1206 4 |
1215 1207 4 |     ptr = 0;
1216 1208 4 |
1217 1209 4 |
1218 1210 4 | Change the file characteristics
1219 1211 4 |
1220 1212 4 |     status = 0;                                ! Show that nothing has changed
1221 1213 4 |
1222 1214 4 | IF .setfile$mflags[qual_backup]                ! /BACKUP
1223 1215 4 | THEN
1224 1216 5 |     BEGIN
1225 1217 5 |         header[fh2$v_nobackup] = 0;
1226 1218 5 |         status = 1;
1227 1219 5 |     END;
1228 1220 4 | IF .setfile$mflags[qual_nobackup]              ! /NOBACKUP
1229 1221 4 | THEN
1230 1222 5 |     BEGIN
1231 1223 5 |         header[fh2$v_nobackup] = 1;
1232 1224 5 |         status = 1;
1233 1225 5 |     END;
1234 1226 4 |
1235 1227 4 | IF .setfile$mflags[qual_erase]                ! /ERASE
1236 1228 4 | THEN
1237 1229 5 |     BEGIN
1238 1230 5 |         IF .header[fh2$b_structlev] EQL 1    ! If not ODS2
1239 1231 5 |         THEN SIGNAL(set$m_notods2,          ! tell the user
1240 1232 5 |             1,
1241 1233 5 |             $DESCRIPTOR('/ERASE'))
1242 1234 5 |         ELSE
1243 1235 5 |             BEGIN
1244 1236 5 |                 header[fh2$v_erase] = 1;
1245 1237 5 |                 status = 1;
1246 1238 5 |             END;
1247 1239 5 |         END;
1248 1240 4 | IF .setfile$mflags[qual_noerase]              ! /NOERASE
1249 1241 4 | THEN
1250 1242 5 |     BEGIN
1251 1243 5 |         IF .header[fh2$b_structlev] EQL 1    ! If not ODS2
```

```
1252      THEN SIGNAL(set$notods2,      ! tell the user
1253                  1,
1254                  $DESCRIPTOR('/NOERASE'))
1255      ELSE
1256      BEGIN
1257      header[fh2$v_erase] = 0;
1258      status = 1;
1259      END;
1260
1261      IF .setfile$flags[qual_data]      ! /DATA_CHECK
1262      THEN
1263      BEGIN
1264      IF .setfile$dflags[data_read] THEN header[fh2$v_readcheck] = 1;
1265      IF .setfile$dflags[data_noread] THEN header[fh2$v_readcheck] = 0;
1266      IF .setfile$dflags[data_write] THEN header[fh2$v_writcheck] = 1;
1267      IF .setfile$dflags[data_nowrite] THEN header[fh2$v_writcheck] = 0;
1268      status = 1;
1269      END;
1270
1271      IF .setfile$flags[qual_nodi]      ! /NODIRECTORY
1272      THEN
1273      BEGIN
1274      IF .header[fh2$b_structlev] EQL 1      ! If not ODS2
1275      THEN SIGNAL(set$notods2,      ! tell the user
1276                  1,
1277                  $DESCRIPTOR('/NODIRECTORY'))
1278      ELSE
1279      BEGIN
1280      header[fh2$v_directory] = 0;
1281      status = 1;
1282      END;
1283      END;
1284
1285      If something in the file characteristics was changed, show it.
1286
1287      IF .status
1288      THEN
1289      BEGIN
1290      atr[.ptr,atr$w_type] = atr$c_uchar;
1291      atr[.ptr,atr$w_size] = atr$s_uchar;
1292      atr[.ptr,atr$l_addr] = header[fh2$l_filechar];
1293      ptr = .ptr + 1;
1294      status = 0;      ! Reset the change indicator
1295      END;
1296
1297      Modify the record attributes
1298
1299      IF .setfile$flags[qual_exte]      ! /EXTENSION
1300      THEN
1301      BEGIN
1302      recattr[fat$w_defext] = .exte_value;
1303      status = 1;
1304      END;
```

```
1309 1301 4
1310 1302 4
1311 1303 4
1312 1304 4
1313 1305 4
1314 1306 4
1315 1307 4
1316 1308 5
1317 1309 5
1318 1310 5
1319 1311 5
1320 1312 5
1321 1313 5
1322 1314 5
1323 1315 5
1324 1316 5
1325 1317 6
1326 1318 6
1327 1319 6
1328 1320 6
1329 1321 5
1330 1322 4
1331 1323 4
1332 1324 4
1333 1325 4
1334 1326 4
1335 1327 4
1336 1328 4
1337 1329 5
1338 1330 5
1339 1331 5
1340 1332 4
1341 1333 4
1342 1334 4
1343 1335 4
1344 1336 4
1345 1337 4
1346 1338 5
1347 1339 5
1348 1340 5
1349 1341 5
1350 1342 5
1351 1343 4
1352 1344 4
1353 1345 4
1354 1346 4
1355 1347 4
1356 1348 4
1357 1349 4
1358 1350 5
1359 1351 5
1360 1352 5
1361 1353 5
1362 1354 5
1363 1355 5
1364 1356 4
1365 1357 4

IF /END_OF_FILE was specified, set the eof block equal to the
highest block allocated, and the first free byte in that block
to 512, indicating that the entire allocated space is used.

  IF .setfile$flags[qual_eof]
  THEN
    BEGIN
      IF .nam[nam$w_fid_num] EQL 1           ! If INDEXF.SYS
      AND .nam[nam$w_fid_seq] EQL 1
      AND .nam[nam$b_fid_nmx] EQL 0
      THEN SIGNAL (set$writeerr,           ! Signal an error
                  1,                       ! modifying it
                  conf_desc,               ! because of an
                  ss$aconflict)
    ELSE
      BEGIN
        recattr[fat$l_efblk] = .recattr[fat$l_hiblk];
        recattr[fat$w_ffbyte] = 512;
        status = 1;
      END;
    END;

If /GLOBAL_BUFFERS was specified, set the global buffer count to
the value specified.

  IF .setfile$flags[qual_gbuf]
  THEN
    BEGIN
      recattr[fat$w_gbc] = .gbuf_value;
      status = 1;
    END;

If something in the user attributes was changed, show it.

  IF .status
  THEN
    BEGIN
      atr[.ptr,atr$w_type] = atr$c_recattr;
      atr[.ptr,atr$w_size] = atr$s_recattr;
      atr[.ptr,atr$l_addr] = header[fh2$w_recattr];
      ptr = .ptr + 1;
    END;

Expiration date

  IF .setfile$flags[qual_expi]
  THEN
    BEGIN
      CH$MOVE(8,exp_value,header[fi2$q_expdate]);
      atr[.ptr,atr$w_type] = atr$c_expdate;
      atr[.ptr,atr$w_size] = atr$s_expdate;
      atr[.ptr,atr$l_addr] = header[fi2$q_expdate];
      ptr = .ptr + 1;
    END;
```



```
1366 1358 4
1367 1359 4 Owner UIC
1368 1360 4
1369 1361 4 IF .setfile$flags[qual_owner]
1370 1362 4 THEN
1371 1363 4 BEGIN
1372 1364 4
1373 1365 4 If the qualifier OWNER=PARENT was specified, then the UIC of the owner
1374 1366 4 directory must be found. Rather than accessing the directory every time, a
1375 1367 4 test is made to determine if the directory's UIC has already been found. If
1376 1368 4 so, then the current value of UIC_VALUE is used. Otherwise, a new value is
1377 1369 4 found.
1378 1370 4
1379 1371 4 IF .setfile$flags[qual_parent]
1380 1372 4 THEN
1381 1373 4 BEGIN
1382 1374 4 IF NOT ((.nam[nam$w_did_num] EQL .old_did_num) AND
1383 1375 4 (.nam[nam$w_did_seq] EQL .old_did_seq) AND
1384 1376 4 (.nam[nam$w_did_rvn] EQL .old_did_rvn))
1385 1377 4 THEN
1386 1378 4 BEGIN
1387 1379 4 LOCAL
1388 1380 4 temp_atr : BLOCKVECTOR[2,8,BYTE],
1389 1381 4 temp_desc : $BLOCK[dsc$c_s_bln],
1390 1382 4 temp_fib : $BLOCK[fib$c_extdata],
1391 1383 4 temp_chan;
1392 1384 4
1393 1385 4 temp_desc[dsc$w_length] = .nam[nam$b_dev];
1394 1386 4 temp_desc[dsc$a_pointer] = .nam[nam$t_dev];
1395 P 1387 4 IF NOT (status = $ASSIGN(DEVNAM = temp_desc,
1396 1388 4 CHAN = temp_chan))
1397 1389 4 THEN
1398 1390 4 BEGIN
1399 1391 4 $DASSGN(CHAN = .channel);
1400 1392 4 SIGNAL(set$opendir, 1, conf_desc, .status);
1401 1393 4 RETURN true;
1402 1394 4 END;
1403 1395 4
1404 1396 4 CH$FILL(0, fib$c_extdata, temp_fib);
1405 1397 4
1406 1398 4 temp_fib[fib$l_acctl] = fib$m_noread OR fib$m_nowrite;
1407 1399 4 temp_fib[fib$w_fid_num] = .nam[nam$w_did_num];
1408 1400 4 temp_fib[fib$w_fid_seq] = .nam[nam$w_did_seq];
1409 1401 4 temp_fib[fib$w_fid_rvn] = .nam[nam$w_did_rvn];
1410 1402 4
1411 1403 4 temp_atr[0,atr$w_type] = atr$c_uic;
1412 1404 4 temp_atr[0,atr$w_size] = atr$s_uic;
1413 1405 4 temp_atr[0,atr$l_addr] = uic_value;
1414 1406 4 temp_atr[1,0,0,32,0] = 0;
1415 1407 4
1416 1408 4 temp_desc[dsc$w_length] = fib$c_extdata;
1417 1409 4 temp_desc[dsc$a_pointer] = temp_fib;
1418 1410 4
1419 P 1411 4 status = $QIOW( CHAN = .temp_chan,
1420 P 1412 4 FUNC = IOS_ACCESS,
1421 P 1413 4 IOSB = iosb,
1422 P 1414 4 P1 = temp_desc,
```

```
1423 1415 7
1424 1416 7
1425 1417 7
1426 1418 7
1427 1419 7
1428 1420 6
1429 1421 5
1430 1422 5
1431 1423 5
1432 1424 5
1433 1425 5
1434 1426 5
1435 1427 5
1436 1428 4
1437 1429 4
1438 1430 4
1439 1431 4
1440 1432 4
1441 1433 4
1442 1434 4
1443 1435 4
1444 1436 5
1445 1437 5
1446 1438 5
1447 1439 5
1448 1440 5
1449 1441 6
1450 1442 6
1451 1443 6
1452 1444 6
1453 1445 6
1454 1446 6
1455 1447 5
1456 1448 4
1457 1449 4
1458 1450 4
1459 1451 4
1460 1452 4
1461 1453 4
1462 1454 5
1463 1455 5
1464 1456 5
1465 1457 5
1466 1458 5
1467 1459 5
1468 1460 5
1469 1461 5
1470 1462 4
1471 1463 4
1472 1464 4
1473 1465 4
1474 1466 4
1475 1467 4
1476 1468 4
1477 1469 4
1478 1470 4
1479 1471 4

        p5 = temp_atr);
        IF .status THEN status = .iosb[0];
        IF NOT .status
        THEN SIGNAL_STOP(set$_opendir, 1, conf_desc, .status);
        $DASSGN (CHAN = .temp_chan);
        END;
    END;

    header[fh2$l_fileowner] = .uic_value;
    atr[.ptr,atr$w_type] = atr$c_uic;
    atr[.ptr,atr$w_size] = atr$s_uic;
    atr[.ptr,atr$l_addr] = header[fh2$l_fileowner];
    ptr = .ptr + 1;
    END;

    If /TRUNCATE was specified, find the block containing the EOF. If
    the EOF occurred somewhere in that block, then truncate to the next
    block.

    IF .setfile$flags[qual_trunc] THEN
    BEGIN
        IF .recattr[fat$w_fileorg] EQL fat$c_indexed
        THEN
            SIGNAL(set$_writeerr, 1, conf_desc, set$_notrunc)
        ELSE
            BEGIN
                fib[fib$w_trunc] = 1;
                fib[fib$l_exvbn] = .recattr[fat$w_efblkh]^16
                    + .recattr[fat$w_efblk];
                IF .recattr[fat$w_ffbyte] GTR 0
                THEN fib[fib$l_exvbn] = .fib[fib$l_exvbn] + 1;
            END;
        END;

    Set the version limit for a particular file

    IF .setfile$flags[qual_vrsn]
    THEN
    BEGIN
        fib[fib$w_did_num] = .nam[nam$w_did_num];      ! Specify the directory
        fib[fib$w_did_seq] = .nam[nam$w_did_seq];
        fib[fib$w_did_rvn] = .nam[nam$w_did_rvn];
        fib[fib$w_findfid] = true;                    ! Set the findfid bit
        fib[fib$w_verlimit] = .vrsn_value;            ! And the version limit
    END;

    If any journaling was requested, make those modifications

    status = 0;                                       ! Flag: journaling info changed.

    IF .setfile$flags[qual_journal]                  ! /JOURNAL
    THEN
```

```

BEGIN
IF .header[fh2$b_structlev] EQL 1          ! If not ODS2
THEN SIGNAL(set$_notods2,                  ! tell the user
            $DESCRIPTOR('/JOURNAL'))
ELSE
BEGIN
! If any of the RU journal bits are going to be set,
! clear the existing header RU bits to avoid conflicts
IF (.setfile$jflags[jrnl_only_ru] OR .setfile$jflags[jrnl_never_ru]
    OR .setfile$jflags[jrnl_ru])
THEN
BEGIN
header[fh2$v_ru] = 0;
header[fh2$v_only_ru] = 0;
header[fh2$v_never_ru] = 0;
END;

IF .setfile$jflags[jrnl_specified_ru]
! RU
THEN
BEGIN
header[fh2$v_ru] = .setfile$jflags[jrnl_ru];
setfile$mflags[misc_mark_file] = 1;
status = 1;
END
ELSE IF .setfile$jflags[jrnl_specified_only_ru]
! RU only
THEN
BEGIN
header[fh2$v_only_ru] = .setfile$jflags[jrnl_only_ru];
setfile$mflags[misc_mark_file] = 1;
status = 1;
END
ELSE IF .setfile$jflags[jrnl_specified_never_ru]
! RU never
THEN
BEGIN
header[fh2$v_never_ru] = .setfile$jflags[jrnl_never_ru];
setfile$mflags[misc_mark_file] = 1;
status = 1;
END;

IF .setfile$jflags[jrnl_specified_ai]
! AI Journaling
THEN
BEGIN
header[fh2$v_ai] = .setfile$jflags[jrnl_ai];
setfile$mflags[misc_mark_file] = 1;
status = 1;
END;
IF .setfile$jflags[jrnl_specified_at]
! AT Journaling
THEN
BEGIN

```

```
1537      header[fh2$u_atjnl] = .setfile$jflags[jrnl_at];
1538      setfile$mflags[misc_mark_file] = 1;
1539      status = 1;
1540      END;
1541      IF .setfile$jflags[jrnl_specified_bi]
1542          ! BI Journaling
1543      THEN
1544          BEGIN
1545              header[fh2$u_bijnl] = .setfile$jflags[jrnl_bi];
1546              setfile$mflags[misc_mark_file] = 1;
1547              status = 1;
1548              END;
1549      END;
1550      END;
1551
1552      If there were any journal bits set, show it.
1553
1554      IF (.status EQL 1)
1555      THEN
1556          BEGIN
1557              atr[.ptr,atr$w_type] = atr$c_journal;
1558              atr[.ptr,atr$w_size] = atr$s_journal;
1559              atr[.ptr,atr$l_addr] = header[fh2$u_journal];
1560              ptr = .ptr + 1;
1561              END;
1562
1563      If an rmsjnlid ACE needs to be added, add it here.
1564      (Only one rmsjnlid ace is needed for journaled file.)
1565
1566      IF .setfile$mflags[misc_mark_file] AND NOT .setfile$mflags[misc_already_rmsjnlid]
1567      THEN
1568          BEGIN
1569              Build JNLID ACE: volume name + file ID + current date/time.
1570              rmsjnlid_ace[ace$b_size] = id_ace$s_size;
1571              rmsjnlid_ace[ace$b_type] = ace$c_jnlid;
1572              rmsjnlid_ace[ace$w_flags] =
1573                  ace$m_hidden OR ace$m_protected OR ace$m_nopropagate;
1574
1575              $ITMLST_INIT (ITMLST = item_list, (ITMCOB = dvi$volnam,
1576                  BUFADR = label_buffer, BUFSIZ = 12));
1577
1578              status = $GETDVI(EFN = 1, CHAN = .channel, ITMLST = item_list,
1579                  IOSB = iosb);
1580
1581              IF .status
1582              THEN
1583                  $WAITFR(EFN = 1)
1584              ELSE
1585                  SIGNAL( set$badlogic, 0, .status, 0 );
1586
1587              IF NOT .iosb[0]
1588              THEN
1589                  SIGNAL( set$badlogic, 0, .iosb[0], 0 );
1590
1591
1592
1593
```



```
1594 1586 CHSMOVE(12, label_buffer, rmsjnlid_ace[id_ace$label]);
1595 1587
1596 1588 rmsjnlid_ace[id_ace$w_num] = .nam[nam$w_fid_num];
1597 1589 rmsjnlid_ace[id_ace$w_seq] = .nam[nam$w_fid_seq];
1598 1590 rmsjnlid_ace[id_ace$w_rvn] = .nam[nam$w_fid_rvn];
1599 1591
1600 1592 $GETTIM( TIMADR = rmsjnlid_ace[id_ace$q_time] );
1601 1593
1602 1594 atr[.ptr,atr$w_type] = atr$c_addaclent;
1603 1595 atr[.ptr,atr$w_size] = id_ace$b_size;
1604 1596 atr[.ptr,atr$l_addr] = rmsjnlid_ace;
1605 1597 ptr = .ptr + 1;
1606 1598 END;
1607 1599
1608 1600
1609 1601
1610 1602
1611 1603 Record journals to use in access control list.
1612 1604
1613 1605
1614 1606
1615 1607 AI Journal Name
1616 1608
1617 1609
1618 1610 IF .setfile$flags[jrnl_ai_name]
1619 1611 THEN
1620 1612 BEGIN
1621 1613 atr[.ptr,atr$w_type] = atr$c_addaclent;
1622 1614 atr[.ptr,atr$w_size] = 4 + .ai_jnl_desc[dsc$w_length];
1623 1615 atr[.ptr,atr$l_addr] = ai_jnl_ace;
1624 1616 ptr = .ptr + 1;
1625 1617
1626 1618 ai_jnl_ace[ace$b_size] = 4 + .ai_jnl_desc[dsc$w_length];
1627 1619 ai_jnl_ace[ace$b_type] = ace$c_atjnl;
1628 1620 ai_jnl_ace[ace$w_flags] = ace$m_hidden OR ace$m_protected;
1629 1621
1630 1622 CHSMOVE (.ai_jnl_desc[dsc$w_length],
1631 1623 .ai_jnl_desc[dsc$a_pointer],
1632 1624 ai_jnl_ace[ace$label]);
1633 1625 END;
1634 1626
1635 1627
1636 1628 AT Journal Name
1637 1629
1638 1630
1639 1631 IF .setfile$flags[jrnl_at_name]
1640 1632 THEN
1641 1633 BEGIN
1642 1634 atr[.ptr,atr$w_type] = atr$c_addaclent;
1643 1635 atr[.ptr,atr$w_size] = 4 + .at_jnl_desc[dsc$w_length];
1644 1636 atr[.ptr,atr$l_addr] = at_jnl_ace;
1645 1637 ptr = .ptr + 1;
1646 1638
1647 1639 at_jnl_ace[ace$b_size] = 4 + .at_jnl_desc[dsc$w_length];
1648 1640 at_jnl_ace[ace$b_type] = ace$c_atjnl;
1649 1641 at_jnl_ace[ace$w_flags] = ace$m_hidden OR ace$m_protected;
1650 1642
```

```
1651 1643 CHSMOVE (.at_jnl_desc[dsc$w_length],
1652 1644 .at_jnl_desc[dsc$a_pointer],
1653 1645 at_jnl_ace[ace$st_jn(nam)]);
1654 1646 END;
1655 1647
1656 1648
1657 1649 BI Journal Name
1658 1650
1659 1651
1660 1652 IF .setfile$flags[jrnl_bi_name]
1661 1653 THEN
1662 1654 BEGIN
1663 1655 atr[.ptr,atr$w_type] = atr$c_addac1ent;
1664 1656 atr[.ptr,atr$w_size] = 4 + .bi_jnl_desc[dsc$w_length];
1665 1657 atr[.ptr,atr$l_addr] = bi_jnl_ace;
1666 1658 ptr = .ptr + 1;
1667 1659
1668 1660 bi_jnl_ace[ace$b_size] = 4 + .bi_jnl_desc[dsc$w_length];
1669 1661 bi_jnl_ace[ace$b_type] = ace$c_bt_jnl;
1670 1662 bi_jnl_ace[ace$w_flags] = ace$m_hidden OR ace$m_protected;
1671 1663
1672 1664 CHSMOVE (.bi_jnl_desc[dsc$w_length],
1673 1665 .bi_jnl_desc[dsc$a_pointer],
1674 1666 bi_jnl_ace[ace$st_jn(nam)]);
1675 1667 END;
1676 1668
1677 1669
1678 1670
1679 1671 Write the modifications out to the file header, and close the file.
1680 1672
1681 1673
1682 1674 fib[fib$l_ac1ctx] = 0; ! Make sure RMS journaling ACEs go first.
1683 1675 atr[.ptr,0,0,32,0] = 0; ! Put a zero at end of attribute list
1684 1676
1685 1677 IF ( .ptr NEQ 0 ! If an attribute was changed
1686 1678 OR .setfile$flags[qual_trunc] ! Or the file should be truncated
1687 1679 OR .setfile$flags[qual_vrsn]) ! Or the version_limit set
1688 1680 THEN
1689 1681 BEGIN
1690 1682 LOCAL RES_DESC : $BLOCK [8],
1691 1683 RES_BUF : $BLOCK [512],
1692 1684 RES_LEN;
1693 1685 CHSFILL (0,8,RES_DESC);
1694 1686 RES_DESC[DSC$W_LENGTH] = 512;
1695 1687 RES_DESC[DSC$a_POINTER] = RES_BUF;
1696 1688 status = $QIOWT (CHAN = .channel, ! Make the modifications
1697 1689 FUNC = IOS MODIFY,
1698 1690 IOSB = iosb,
1699 1691 P1 = desc,
1700 1692 P3 = RES_LEN,
1701 1693 P4 = RES_DESC,
1702 1694 P5 = atr);
1703 1695 IF .status THEN status = .iosb[0];
1704 1696 IF NOT .status
1705 1697 THEN file_error(set$writeerr,.status,.fab) ! If the modify failed, tell user
1706 1698 ELSE
1707 1699 IF .setfile$flags[qual_log] ! If /LOG, tell user
```

```
1708      THEN SIGNAL(set$modified,1,conf_desc);
1709      END;
1710
1711      Now to close the file. Don't bother to check the status, since the
1712      modifications got made correctly.
1713
1714      SBIOW( CHAN = ,channel,                ! Deaccess the file
1715             FUNC = IOS_DEACCESS,
1716             IOSB = iosb,
1717             P1 = desc);
1718      END;
1719      END;
1720
1721      If /REMOVE or /ENTER was specified, process it
1722      IF (.setfile$flags[qual_remove] OR .setfile$flags[qual_enter])
1723      THEN
1724      BEGIN
1725
1726      Set up the FIB appropriately
1727
1728      fib[fib$w_did_num] = .nam[nam$w_did_num];    ! Put in the directory ID
1729      fib[fib$w_did_seq] = .nam[nam$w_did_seq];
1730      fib[fib$w_did_rvn] = .nam[nam$w_did_rvn];
1731
1732      If /REMOVE was specified, remove the directory entry
1733      IF .setfile$flags[qual_remove]
1734      THEN
1735      BEGIN
1736
1737      Check to see if an explicit or wild version number was specified.
1738      If not, exit with an error.
1739
1740      IF NOT (.nam[nam$w_exp_ver] OR
1741             .nam[nam$w_wild_ver])
1742      THEN SIGNAL(set$remerr,
1743                 1,
1744                 conf_desc,
1745                 set$delver)
1746
1747      If /CONFIRM was set by the user, then interrogate him to see
1748      if the directory entry is to be removed.
1749
1750      ELSE
1751      IF
1752      BEGIN
1753      IF .setfile$flags[qual_quit_rem]
1754      OR NOT .setfile$flags[qual_confirm]
1755      THEN true
1756      ELSE
1757      BEGIN
```

```
1765      status = lib$confirm_act(ASCII 'Remove directory entry for !AS? [N]: ',  
1766      ZREF(conf_desc));  
1767      IF NOT .status  
1768      THEN  
1769      BEGIN  
1770      IF .status EQL lib$quipro  
1771      THEN (setfile$flags[qual_quit] = 1; RETURN true)  
1772      ELSE IF .status EQL lib$quiconact  
1773      THEN (setfile$flags[qual_quit_rem] = 1; status = 1)  
1774      ELSE IF .status NEQ lib$negans  
1775      THEN SIGNAL(set$writeerr, 1, conf_desc, .status);  
1776      END;  
1777      .status  
1778      END  
1779      END  
1780      THEN  
1781      BEGIN  
1782      fib[lib$w_fid_num] = 0;           ! Clear the File ID  
1783      fib[lib$w_fid_seq] = 0;  
1784      fib[lib$w_fid_rvn] = 0;  
1785  
1786      ! Isolate the file portion of the resultant file string  
1787      file_name[0] = .nam[nam$b_name]  
1788      + .nam[nam$b_type]  
1789      + .nam[nam$b_ver];  
1790      file_name[1] = .nam[nam$l_name];  
1791  
1792      ! Issue the QIO to remove the directory entry  
1793      status = $QIO( CHAN = .channel,  
1794      FUNC = IOS_DELETE,  
1795      IOSB = iosb,  
1796      P1 = desc,  
1797      P2 = file_name);  
1798      IF .status THEN status = .iosb[0];  
1799      IF NOT .status  
1800      THEN SIGNAL(set$writeerr,           ! Error writing  
1801      file_name,                          ! to this file  
1802      .status)                          ! for this reason  
1803      ELSE  
1804      IF .setfile$flags[qual_log]           ! If /LOG, tell user  
1805      THEN SIGNAL(set$removed, 1, conf_desc);  
1806      END;  
1807      END  
1808      ! IF /ENTER, enter the name in the directory  
1809      ELSE  
1810      BEGIN  
1811      LOCAL  
1812      new_name : VECTOR[2],           ! Place to put new filespec  
1813
```



```
1822      new_fab : $BLOCK[fab$c_bln],      ! Temp output fab
1823      new_nam : $BLOCK[nam$c_bln],      ! Temp output name block
1824      new_nam2 : $BLOCK[nam$c_bln],      ! another temp nam block
1825      new_desc : $BLOCK[desc$c_bln],      ! Descriptor for new name
1826      new_nam_exp : VECTOR[nam$c_maxrss, BYTE], ! Expanded string
1827      new_nam_exp2 : VECTOR[nam$c_maxrss, BYTE]; ! Expanded string2
1828
1829      Initialize the fab and name block, using the original file name block
1830      as the related file.
1831
1832      $FAB_INIT ( FAB = new_fab,
1833                  NAM = new_nam,
1834                  FNA = .file_name[1],
1835                  FNS = .file_name[0]);
1836      $NAM_INIT ( NAM = new_nam,
1837                  RLF = nam,
1838                  ESA = new_nam_exp,
1839                  ESS = nam$c_maxrss);
1840
1841      If the original file specification had a wildcard version number, then
1842      use one here.
1843
1844      IF (.nam[nam$v_wild_ver])
1845      THEN
1846      BEGIN
1847      new_fab[fab$l_dna] = UPLIT(';');
1848      new_fab[fab$b_dns] = %CHARCOUNT(';');
1849      END
1850      ELSE
1851      BEGIN
1852      new_fab[fab$l_dna] = 0;
1853      new_fab[fab$b_dns] = 0;
1854      END;
1855
1856      Parse once, with the OFP bit off, to fill in all the fields
1857      from the original name block
1858
1859      status = $PARSE (FAB = new_fab);
1860      CH$MOVE(nam$c_bln, new_nam, new_nam2);
1861      parse_null_string(new_fab);
1862      IF NOT .status
1863      THEN
1864      BEGIN
1865      SIGNAL_STOP(set$enterr,
1866                  2,
1867                  conf_desc,
1868                  file_name,
1869                  .status);
1870      RETURN true;
1871      END;
1872
1873      Now parse with OFP set, to obtain the final file name
1874
1875      $FAB_INIT( FAB = new_fab,
1876                 NAM = new_nam,
1877                 FNA = .new_nam2[nam$l_esa],
```

```
1879 P 1871 4 FNS = .new_nam2[nam$b_esl],
1880 P 1872 4 FOP = ofp);
1881 P 1873 4 $NAM_INIT( NAM = new_nam,
1882 P 1874 4 RLF = nam,
1883 P 1875 4 ESA = new_nam_exp2,
1884 1876 4 ESS = nam$c_maxrss);
1885 1877 4
1886 1878 4 status = $PARSE (FAB = new_fab);
1887 1879 4 CHSMOVE(nam$c_bln,new_nam,new_nam2);
1888 1880 4 parse_null_string(new_fab);
1889 1881 4 IF NOT .status
1890 1882 4 THEN
1891 1883 4 BEGIN
1892 1884 4 SIGNAL(set$_enterr, ! Error entering
1893 1885 4 2,
1894 1886 4 conf_desc, ! This file
1895 1887 4 file_name, ! as this file
1896 1888 4 .status); ! Not on same device
1897 1889 4 RETURN true;
1898 1890 4 END;
1899 1891 4
1900 1892 4 :: Get the full file name
1901 1893 4 new_name[0] = .new_nam2[nam$b_esl];
1902 1894 4 new_name[1] = .new_nam2[nam$l_esa];
1903 1895 4
1904 1896 4 :: Find the actual file name
1905 1897 4 new_desc[dsc$w_length] = .new_nam2[nam$b_name]
1906 1898 4 + .new_nam2[nam$b_type]
1907 1899 4 + .new_nam2[nam$b_ver];
1908 1900 4 new_desc[dsc$a_pointer] = .new_nam2[nam$l_name];
1909 1901 4
1910 1902 4 :: Put in the file ID of the target directory
1911 1903 4 fib[fib$w_did_num] = .new_nam2[nam$w_did_num];
1912 1904 4 fib[fib$w_did_seq] = .new_nam2[nam$w_did_seq];
1913 1905 4 fib[fib$w_did_rvn] = .new_nam2[nam$w_did_rvn];
1914 1906 4
1915 1907 4 :: Check to see that the enter request is for the same device. If not,
1916 1908 4 signal an error. This is done by comparing the DVI field of the RMS
1917 1909 4 name blocks.
1918 1910 4
1919 1911 4 IF CH$NEQ(.(nam[nam$t_dvi])<0,8>, nam[nam$t_dvi]+1,
1920 1912 4 (new_nam2[nam$t_dvi])<0,8>, new_nam2[nam$t_dvi]+1, 0)
1921 1913 4 THEN SIGNAL(set$-enterr, ! Error entering
1922 1914 4 2,
1923 1915 4 conf_desc, ! This file
1924 1916 4 new_name, ! as this file
1925 1917 4 RMS$-DEV) ! Not on same device
1926 1918 4 ELSE
1927 1919 4 :: If /CONFIRM was set by the user, then interrogate him to see
```

```
1936 1928 4 : if the file is to be entered in a directory.
1937 1929 4 :
1938 1930 4 :
1939 1931 4 : IF
1940 1932 4 : BEGIN
1941 1933 4 : IF .setfile$flags[qual_quit_ent]
1942 1934 4 : OR NOT .setfile$flags[qual_confirm]
1943 1935 4 : THEN true
1944 1936 4 : ELSE
1945 1937 4 : BEGIN
1946 1938 4 : LOCAL
1947 1939 4 : arglist : VECTOR[2];
1948 1940 4 : arglist[0] = conf_desc;
1949 1941 4 : arglist[1] = new_name;
1950 1942 4 : status = lib$confirm_act(%ASCII 'Enter !AS as !AS? [N]: ',
1951 1943 4 : arglist);
1952 1944 4 : IF NOT .status
1953 1945 4 : THEN
1954 1946 4 : BEGIN
1955 1947 4 : IF .status EQL lib$ quipro
1956 1948 4 : THEN (setfile$flags[qual_quit] = 1; RETURN true)
1957 1949 4 : ELSE IF .status EQL lib$ quiconact
1958 1950 4 : THEN (setfile$flags[qual_quit_ent] = 1; status = 1)
1959 1951 4 : ELSE IF .status NEQ lib$ negans
1960 1952 4 : THEN SIGNAL(set$_writeerr, 1, conf_desc, .status);
1961 1953 4 : END;
1962 1954 4 : status
1963 1955 4 : END
1964 1956 4 : END
1965 1957 4 : THEN
1966 1958 4 : BEGIN
1967 1959 4 : Issue the QIO
1968 1960 4 :
1969 1961 4 :
1970 1962 4 : status = $QIO( CHAN = .channel, ! Enter the new name
1971 1963 4 : FUNC = IOS CREATE,
1972 1964 4 : IOSB = iosb,
1973 1965 4 : P1 = desc,
1974 1966 4 : P2 = new_desc);
1975 1967 4 : IF .status THEN status = .iosb[0];
1976 1968 4 : IF NOT .status
1977 1969 4 : THEN SIGNAL(set$_enterr, ! Error entering
1978 1970 4 : 2,
1979 1971 4 : conf_desc, ! this file
1980 1972 4 : new_name, ! as this file
1981 1973 4 : .status) ! for this reason
1982 1974 4 : ELSE
1983 1975 4 : IF .setfile$flags[qual_log] ! If /LOG, tell user
1984 1976 4 : THEN SIGNAL(set$_entered, 2, conf_desc, new_name);
1985 1977 4 : END;
1986 1978 4 : END; ! End of /ENTER block
1987 1979 4 : END; ! End of modify block
1988 1980 4 :
1989 1981 4 : If /UNLOCK was specified by the user
1990 1982 4 :
1991 1983 4 : IF .setfile$flags[qual_unlock]
1992 1984 4 : THEN
```

```
1993 1985 3 IF NOT (status = unlock_action(.fab))
1994 1986 THEN
1995 1987 SIGNAL(set$_unlockerr,1,conf_desc,.status);
1996 1988
1997 1989
1998 1990
1999 1991 IF /PROTECTION was specified by the user
2000 1992
2001 1993 IF .setfile$flags[qual_protection]
2002 1994 THEN
2003 1995 IF NOT (status = setpro_action(.fab))
2004 1996 THEN
2005 1997 SIGNAL(set$_proerr,1,conf_desc,.status);
2006 1998
2007 1999
2008 2000 Deassign the channel
2009 2001
2010 2002 IF NOT (status = $DASSGN(CHAN = .channel))
2011 2003 THEN file_error(set$_closeerr,.status,.fab); ! If deassign failed, say so
2012 2004
2013 2005 RETURN true; ! Continue processing other files
2014 2006 END;
```

```
53 41 21 20 65 6C 69 66 20 79 66 69 64 6F 4D 003A0 P.ADN: .PSECT $PLITS,NOWRT,NOEXE,2
00 20 3A 20 5D 4E 5B 20 3F 003AF .ASCII \Modify file !AS? [N]: \<0>
010E0017 003B8 P.ADM: .LONG 17694743
00000000 003BC .ADDRESS P.ADN
45 53 41 52 45 2F 003C0 P.ADP: .ASCII \ERASE\
003C6 .BLKB 2
00000006 003C8 P.ADO: .LONG 6
00000000 003CC .ADDRESS P.ADP
45 53 41 52 45 4F 4E 2F 003D0 P.ADR: .ASCII \NOERASE\
00000008 003D8 P.ADQ: .LONG 8
00000000 003DC .ADDRESS P.ADR
59 52 4F 54 43 45 52 49 44 4F 4E 2F 003E0 P.ADT: .ASCII \NODIRECTORY\
0000000C 003EC P.ADS: .LONG 12
00000000 003F0 .ADDRESS P.ADT
4C 41 4E 52 55 4F 4A 2F 003F4 P.ADV: .ASCII \JOURNAL\
00000008 003FC P.ADU: .LONG 8
00000000 00400 .ADDRESS P.ADV
72 6F 74 63 65 72 69 64 20 65 76 6F 6D 65 52 00404 P.ADX: .ASCII \Remove directory entry for !AS? [N]: \<0>
53 41 21 20 72 6F 66 20 79 72 74 6E 65 20 79 00413
00 20 3A 5D 4E 5B 20 3F 00422
00 00 0042A .ASCII <0><0>
010E0025 0042C P.ADW: .LONG 17694757
00000000 00430 .ADDRESS P.ADX
00 2A 3B 00434 P.ADY: .ASCII \.*\<0><0>
41 21 20 73 61 20 53 41 21 20 72 65 74 6E 45 00438 P.AEA: .ASCII \Enter !AS as !AS? [N]: \<0>
00 20 3A 5D 4E 5B 20 3F 53 00447
010E0017 00450 P.ADZ: .LONG 17694743
00000000 00454 .ADDRESS P.AEA
.PSECT $OWNS,NOEXE,2
```


Offset	Hex	Symbol	Disassembly	Comment	Address
00000000	EF 9E 00002	EF 9E 00002	MOVAB	SETFILE\$R2,R3,R4,R5,R6,R7,R8,R9,R10,R11	1016
00000001	CE 9E 00009	CE 9E 00009	MOVAB	SETFILE\$R3,R4,R5,R6,R7,R8,R9,R10,R11	1017
00000002	AC D0 0000E	AC D0 0000E	MOVAB	-1608(SP), SP	1018
00000003	AA D0 00012	AA D0 00012	MOVL	FAB, R10	1050
00000004	06 E0 00016	06 E0 00016	MOVL	40(R10), R7	1063
00000005	A7 D0 0001B	A7 D0 0001B	BBS	#6, SETFILE\$R3,R4,R5,R6,R7,R8,R9,R10,R11	1069
00000006	A7 9B 00021	A7 9B 00021	MOVL	4(R7), CONF_DESC+4	1070
00000007	7E 7C 00027	7E 7C 00027	MOVZBW	3(R7), CONF_DESC	1072
00000008	7E D4 00029	7E D4 00029	CLRQ	-(SP)	1073
00000009	7E D4 0002F	7E D4 0002F	CLRL	-(SP)	1074
0000000A	CB 9F 0002B	CB 9F 0002B	PUSHAB	CONF_DESC	1075
0000000B	7E D4 0002F	7E D4 0002F	CLRL	-(SP)	1076
0000000C	EF 9F 00031	EF 9F 00031	PUSHAB	CONTEXT	1077
0000000D	06 FB 00037	06 FB 00037	CALLS	#6, LIB\$QUAL_FILE_MATCH	1078
0000000E	50 D0 0003E	50 D0 0003E	MOVL	R0, STATUS	1081
0000000F	58 E8 00041	58 E8 00041	BLBS	STATUS, 3\$	1082
00000010	58 D1 00044	58 D1 00044	CMPL	STATUS, #LIB\$FILFAIMAT	1083
00000011	15 13 0004B	15 13 0004B	BEQL	2\$	1084
00000012	58 DD 0004D	58 DD 0004D	PUSHL	STATUS	1085
00000013	CB 9F 0004F	CB 9F 0004F	PUSHAB	CONF_DESC	1086
00000014	01 DD 00053	01 DD 00053	PUSHL	#1	1087
00000015	8F DD 00055	8F DD 00055	PUSHL	#7803034	1088
00000016	04 FB 0005B	04 FB 0005B	CALLS	#4, LIB\$SIGNAL	1089
00000017	0B 9B 31 00062	0B 9B 31 00062	BRW	102\$	1090
00000018	A7 9B 00065	A7 9B 00065	MOVZBW	57(R7), DESC	1091
00000019	A7 D0 0006A	A7 D0 0006A	MOVL	68(R7), DESC+4	1092
0000001A	7E 7C 0006F	7E 7C 0006F	CLRQ	-(SP)	1093
0000001B	AE 9F 00071	AE 9F 00071	PUSHAB	CHANNEL	1094
0000001C	AD 9F 00074	AD 9F 00074	PUSHAB	DESC	1095
0000001D	04 FB 00077	04 FB 00077	CALLS	#4, SYSS\$ASSIGN	1096
0000001E	50 D0 0007E	50 D0 0007E	MOVL	R0, STATUS	1097
0000001F	58 E8 00081	58 E8 00081	BLBS	STATUS, 4\$	1098
00000020	8F BB 00084	8F BB 00084	PUSHR	#*M<R8,R10>	1101
00000021	8F DD 00088	8F DD 00088	PUSHL	#7803034	1100
00000022	0B 68 31 0008E	0B 68 31 0008E	BRW	101\$	1108
00000023	8F 9B 00091	8F 9B 00091	MOVZBW	#64, DESC	1109
00000024	CD 9E 00096	CD 9E 00096	MOVAB	FIB, DESC+4	1111
00000025	00 2C 0009C	00 2C 0009C	MOVCS	#0, (SP), #0, #64, FIB	1114
00000026	CD 000A3	CD 000A3			
00000027	8F 3C 000A6	8F 3C 000A6	MOVZWL	#1281, FIB	

3E	FF54	CD	24	A7	D0	000AD	MOVL	36(R7), FIB+4	1117
3A	FF58	CD	28	A7	B0	000B3	MOVW	40(R7), FIB+8	1119
36		6B		01	E0	000B9	BBS	#1, SETFILES\$FLAGS, 5\$	1126
32		6B		02	E0	000BD	BBS	#2, SETFILES\$FLAGS, 5\$	1127
2E		6B		04	E0	000C1	BBS	#4, SETFILES\$FLAGS, 5\$	1128
		6B		05	E0	000C5	BBS	#5, SETFILES\$FLAGS, 5\$	1129
		6B		06	E0	000C9	BBS	#6, SETFILES\$FLAGS, 5\$	1130
				6B	95	000CD	TSTB	SETFILES\$FLAGS	1131
				2A	19	000CF	BLSS	5\$	
		26	01	AB	E8	000D1	BLBS	SETFILES\$FLAGS+1, 5\$	1132
21	01	AB		01	E0	000D5	BBS	#1, SETFILES\$FLAGS+1, 5\$	1133
1C	01	AB		02	E0	000DA	BBS	#2, SETFILES\$FLAGS+1, 5\$	1134
17	01	AB		03	E0	000DF	BBS	#3, SETFILES\$FLAGS+1, 5\$	1135
12	01	AB		05	E0	000E4	BBS	#5, SETFILES\$FLAGS+1, 5\$	1136
0D	01	AB		06	E0	000E9	BBS	#6, SETFILES\$FLAGS+1, 5\$	1137
08	02	AB		01	E0	000EE	BBS	#1, SETFILES\$FLAGS+2, 5\$	1138
03	02	AB		03	E0	000F3	BBS	#3, SETFILES\$FLAGS+2, 5\$	1139
			02	0700	31	000F8	BRW	72\$	
				AB	95	000FB	TSTB	SETFILES\$FLAGS+2	1142
				5E	19	000FE	BLSS	9\$	
5A		6B		03	E1	00100	BBC	#3, SETFILES\$FLAGS, 9\$	1143
		6E	018C	CB	9E	00104	MOVAB	CONF_DESC, (SP)	1148
				5E	DD	00109	PUSHL	SP	
	00000000G	00	00000000*	EF	9F	0010B	PUSHAB	P.ADM	1147
		58		02	FB	00111	CALLS	#2, LIB\$CONFIRM_ACT	
		40		50	D0	00118	MOVL	R0, STATUS	
	00000000G	8F		58	E8	0011B	BLBS	STATUS, 9\$	1149
				58	D1	0011E	CMPL	STATUS, #LIB\$_QUIPRO	1152
				03	12	00125	BNEQ	6\$	
				09C3	31	00127	BRW	89\$	
	00000000G	8F		58	D1	0012A	CMPL	STATUS, #LIB\$_QUICONACT	1154
				0A	12	00131	BNEQ	7\$	
	02	AB	80	8F	88	00133	BISB2	#128, SETFILES\$FLAGS+2	1155
		58		01	D0	00138	MOVL	#1, STATUS	
				1E	11	0013B	BRB	8\$	
	00000000G	8F		58	D1	0013D	CMPL	STATUS, #LIB\$_NEGANS	1156
				15	13	00144	BEQL	8\$	
				58	DD	00146	PUSHL	STATUS	1157
			018C	CB	9F	00148	PUSHAB	CONF_DESC	
				01	DD	0014C	PUSHL	#1	
				8F	DD	0014E	PUSHL	#SET\$ WRITEERR	
	00000000G	00	00000000G	04	FB	00154	CALLS	#4, LIB\$SIGNAL	
		70		58	E9	0015B	BLBC	STATUS, 11\$	1159
	98	AD	000A0200	8F	D0	0015E	MOVL	#655872, ATR	1166
	9C	AD	FD50	CD	9E	00166	MOVAB	HEADER, ATR+4	1167
	A0	AD	00230020	8F	D0	0016C	MOVL	#2293792, ATR+8	1169
	A4	AD	00000000*	EF	9E	00174	MOVAB	RMSJNLID_ACE, ATR+12	1170
				AD	D4	0017C	CLRL	ATR+16	1171
	00000000*	EF	06000820	8F	D0	0017F	MOVL	#100665376, RMSJNLID_ACE	1173
				7E	D4	0018A	CLRL	-(SP)	1181
			98	AD	9F	0018C	PUSHAB	ATR	
				7E	7C	0018F	CLRQ	-(SP)	
				7E	D4	00191	CLRL	-(SP)	
			90	AD	9F	00193	PUSHAB	DESC	
				7E	7C	00196	CLRQ	-(SP)	
			FCF0	CD	9F	00198	PUSHAB	IOSB	
		7E	72	8F	9A	0019C	MOVZBL	#114, -(SP)	

	59	2C	AE	3C	001A0	MOVZWL	CHANNEL, R9	
			59	DD	001A4	PUSHL	R9	
			7E	D4	001A6	CLRL	-(SP)	
00000000G	00		0C	FB	001A8	CALLS	#12, SYSSQIOW	
	58		50	DD	001AF	MOVL	R0, STATUS	
	08		58	E9	001B2	BLBC	STATUS, 108	1182
	58	FCF0	CD	3C	001B5	MOVZWL	IOSB, STATUS	
	14		58	E8	001BA	BLBS	STATUS, 128	1183
		0500	8F	BB	001BD	PUSHR	#*M<R8, R10>	1184
		00000000G	8F	DD	001C1	PUSHL	#SETS_READERR	
00000000V	EF		03	FB	001C7	CALLS	#3, FILE_ERROR	
			062A	31	001CE	BRW	728	
	01	FD57	CD	91	001D1	CMPB	HEADER+7, #1	1191
			08	12	001D6	BNEQ	138	
FD64	CD	FD5E	CD	20	001D8	MOVC3	#32, HEADER+14, HEADER+20	1192
				EF	95	TSTB	RMSJNLID_ACE+1	1198
		00000000'	04	13	001E6	BEQL	148	
			04	88	001EB	BISB2	#4, SETFILES\$MFLAGS	1200
	OC	AB	56	D4	001EC	CLRL	PTR	1207
			58	D4	001EE	CLRL	STATUS	1212
08		6B	01	E1	001F0	BBC	#1, SETFILES\$FLAGS, 158	1214
	FD84	CD	02	8A	001F4	BICB2	#2, HEADER+52	1217
		58	01	DD	001F9	MOVL	#1, STATUS	1218
08		6B	02	E1	001FC	BBC	#2, SETFILES\$FLAGS, 168	1220
	FD84	CD	02	88	00200	BISB2	#2, HEADER+52	1223
		58	01	DD	00205	MOVL	#1, STATUS	1224
26		6B	06	E1	00208	BBC	#6, SETFILES\$FLAGS, 188	1227
		01	CD	91	0020C	CMPB	HEADER+7, #1	1230
		FD57	17	12	00211	BNEQ	178	
		00000000'	EF	9F	00213	PUSHAB	P.ADD	1233
			01	DD	00219	PUSHL	#1	1231
		00000000G	8F	DD	0021B	PUSHL	#SETS_NOTODS2	
00000000G	00		03	FB	00221	CALLS	#3, LIB\$SIGNAL	
			08	11	00228	BRB	188	
	FD86	CD	02	88	0022A	BISB2	#2, HEADER+54	1236
		58	01	DD	0022F	MOVL	#1, STATUS	1237
			6B	95	00232	TSTB	SETFILES\$FLAGS	1240
			26	18	00234	BGEQ	208	
		01	CD	91	00236	CMPB	HEADER+7, #1	1243
		FD57	17	12	0023B	BNEQ	198	
		00000000'	EF	9F	0023D	PUSHAB	P.ADD	1246
			01	DD	00243	PUSHL	#1	1244
		00000000G	8F	DD	00245	PUSHL	#SETS_NOTODS2	
00000000G	00		03	FB	0024B	CALLS	#3, LIB\$SIGNAL	
			08	11	00252	BRB	208	
	FD86	CD	02	8A	00254	BICB2	#2, HEADER+54	1249
		58	01	DD	00259	MOVL	#1, STATUS	1250
28		6B	04	E1	0025C	BBC	#4, SETFILES\$FLAGS, 258	1254
05	04	AB	01	E1	00260	BBC	#1, SETFILES\$D_FLAGS, 218	1257
	FD84	CD	08	88	00265	BISB2	#8, HEADER+52	
05	04	AB	03	E1	0026A	BBC	#3, SETFILES\$D_FLAGS, 228	1258
	FD84	CD	08	8A	0026F	BICB2	#8, HEADER+52	
05	04	AB	02	E1	00274	BBC	#2, SETFILES\$D_FLAGS, 238	1259
	FD84	CD	10	88	00279	BISB2	#16, HEADER+52	
05	04	AB	04	E1	0027E	BBC	#4, SETFILES\$D_FLAGS, 248	1260
	FD84	CD	10	8A	00283	BICB2	#16, HEADER+52	
		58	01	DD	00288	MOVL	#1, STATUS	1261

26	01	AB	05	E1	00288	258:	BBC	#5, SETFILES\$FLAGS+1, 278	1264	
		01	CD	91	00290		CMPB	HEADER+7, #1	1267	
			17	12	00295		BNEQ	268		
			00000000	EF	9F		PUSHAB	P.ADS	1270	
				01	DD		PUSHL	#1	1268	
			00000000G	8F	DD		PUSHL	#SET\$ NOTODS2		
		00	03	FB	002A5		CALLS	#3, LIB\$SIGNAL		
			08	11	002AC		BRB	278		
		FD85	CD	20	8A	002AE	268:	BICB2	#32, HEADER+53	1273
			58	01	DO	002B3		MOVL	#1, STATUS	1274
			18	58	E9	002B6	278:	BLBC	STATUS, 288	1281
				9A	AD46	7F		PUSHAQ	ATR+2[PTR]	1284
					03	80		MOVW	#3, @ (SP)+	
			9E	98	AD46	7F		PUSHAQ	ATR[PTR]	1285
					04	80		MOVW	#4, @ (SP)+	
			9E	9C	AD46	7F		PUSHAQ	ATR+4[PTR]	1286
					CD	9E		MOVAB	HEADER+52, @ (SP)+	
			9E	FD84	56	D6		INCL	PTR	1287
					58	D4		CLRL	STATUS	1288
				01	E1	002D4	288:	B3C	#1, SETFILES\$FLAGS+1, 298	1295
		09	01	AB	20	AB		MOVW	EXT VALUE, RECATR+18	1298
			FD76	CD	01	DO		MOVL	#1, STATUS	1299
				58	05	E1	298:	HBC	#5, SETFILES\$FLAGS, 318	1306
		3C		68	24	A7		CMPW	36(R7), #1	1309
				01	25	12		BNEQ	308	
					26	A7		CMPW	38(R7), #1	1310
				01	1F	12		BNEQ	308	
					29	A7		TSTB	41(R7)	1311
					1A	12		BNEQ	308	
				7E	0800	8F		MOVZWL	#2048, -(SP)	1312
					018C	CB		PUSHAB	CONF_DESC	
						01		PUSHL	#1	
					00000000G	8F		PUSHL	#SET\$ WRITEERR	
			00	04	FB	00308		CALLS	#4, LIB\$SIGNAL	
				11	11	0030F		BRB	318	
					CD	DO	308:	MOVL	RECATR+4, RECATR+8	1318
		FD6C	CD	FD68	CD	DO		MOVW	#512, RECATR+12	1319
		FD70	CD	0200	8F	BO		MOVL	#1, STATUS	1320
			58	01	DO	0031F	318:	BBC	#2, SETFILES\$FLAGS+1, 328	1327
		09	01	AB	24	AB		MOVW	GBUF VALUE, RECATR+20	1330
			FD78	CD	01	DO		MOVL	#1, STATUS	1331
				58	58	E9	328:	BLBC	STATUS, 338	1336
				19		7F		PUSHAQ	ATR+2[PTR]	1339
					9A	AD46		MOVW	#4, @ (SP)+	
				9E		04		PUSHAQ	ATR[PTR]	1340
					98	AD46		MOVW	#32, @ (SP)+	
				9E	20	BO		PUSHAQ	ATR+4[PTR]	1341
					9C	AD46		MOVAB	HEADER+20, @ (SP)+	
				9E	FD64	CD		INCL	PTR	1342
					56	D6		BLBC	SETFILES\$FLAGS+1, 348	1348
				20	01	AB	338:	MOVW	#8, EXP VALUE, HEADER+38	1351
		FD76	CD	18	AB	28		PUSHAQ	ATR+2[PTR]	1352
					9A	AD46		MOVW	#19, @ (SP)+	
				9E		13		PUSHAQ	ATR[PTR]	1353
					98	AD46		MOVW	#8, @ (SP)+	
				9E		08		PUSHAQ	ATR+4[PTR]	1354
					9C	AD46		MOVAB	HEADER+38, @ (SP)+	
				9E	FD76	CD				
						9E				
						00369				

03	01	AB	56	D6	0036E	INCL	PTR	1355	
			06	E0	00370	BBS	#6, SETFILES\$FLAGS+1, 35\$	1361	
			010A	31	00375	BRW	43\$		
		01	AB	95	00378	TSTB	SETFILES\$FLAGS+1	1371	
			03	19	0037B	BLSS	37\$		
			00E3	31	0037D	BRW	42\$		
00000000'	EF	2A	A7	B1	00380	CMPL	42(R7), OLD_DID_NUM	1374	
			14	12	00388	BNEQ	38\$		
00000000'	EF	2C	A7	B1	0038A	CMPL	44(R7), OLD_DID_SEQ	1375	
			0A	12	00392	BNEQ	38\$		
00000000'	EF	2E	A7	B1	00394	CMPL	46(R7), OLD_DID_RVN	1376	
			DF	13	0039C	BEQL	36\$		
0320	CE	39	A7	9B	0039E	MOVZBW	57(R7), TEMP_DESC	1385	
FCDC	CD	44	A7	D0	003A4	MOVL	68(R7), TEMP_DESC+4	1386	
			7E	7C	003AA	CLRL	-(SP)	1388	
		10	AE	9F	003AC	PUSHAB	TEMP_CHAN		
		FCDB	CD	9F	003AF	PUSHAB	TEMP_DESC		
00000000G	00		04	FB	003B3	CALLS	#4, SYS\$ASSIGN		
	58		50	D0	003BA	MOVL	R0, STATUS		
	1A		58	E8	003BD	BLBS	STATUS, 39\$		
			59	DD	003C0	PUSHL	R9	1391	
00000000G	00		01	FB	003C2	CALLS	#1, SYS\$DASSGN		
			58	DD	003C9	PUSHL	STATUS	1392	
		018C	CB	9F	003CB	PUSHAB	CONF_DESC		
			01	DD	003CF	PUSHL	#1		
		00000000G	8F	DD	003D1	PUSHL	#SET\$OPENDIR		
			FCB1	31	003D7	BRW	1\$		
20	00	6E	00	2C	003DA	MOVCS	#0, (SP), #0, #32, TEMP_FIB	1396	
			0300	CE	003DF				
	0300	CE	0401	8F	3C	003E2	MOVZWL	#1025, TEMP_FIB	1398
	0304	CE	2A	A7	D0	003E9	MOVL	42(R7), TEMP_FIB+4	1399
	0308	CE	2E	A7	B0	003EF	MOVW	46(R7), TEMP_FIB+8	1401
	FCE0	CD	00150004	8F	D0	003F5	MOVL	#1376260, TEMP_ATR	1404
	FCE4	CD	28	AB	9E	003FE	MOVAB	UIC VALUE, TEMP_ATR+4	1405
			FCE8	CD	D4	00404	CLRL	TEMP_ATR+8	1406
	0320	CE	20	B0	00408	MOVW	#32, TEMP_DESC	1408	
	FCDC	CD	0300	CE	9E	0040D	MOVAB	TEMP_FIB, TEMP_DESC+4	1409
			7E	D4	00414	CLRL	-(SP)	1415	
			FCE0	CD	9F	00416	PUSHAB	TEMP_ATR	
			7E	7C	0041A	CLRL	-(SP)		
			7E	D4	0041C	CLRL	-(SP)		
			FCDB	CD	9F	0041E	PUSHAB	TEMP_DESC	
			7E	7C	00422	CLRL	-(SP)		
			FCF0	CD	9F	00424	PUSHAB	IOSB	
			32	DD	00428	PUSHL	#50		
			30	AE	DD	0042A	PUSHL	TEMP_CHAN	
			7E	D4	0042D	CLRL	-(SP)		
00000000G	00		0C	FB	0042F	CALLS	#12, SYS\$QIOW		
	58		50	D0	00436	MOVL	R0, STATUS		
	08		58	E9	00439	BLBC	STATUS, 40\$	1416	
	58		FCFL	CD	3C	0043C	MOVZWL	IOSB, STATUS	
	15		58	E8	00441	BLBS	STATUS, 41\$	1417	
			58	DD	00444	PUSHL	STATUS	1418	
			018C	CB	9F	00446	PUSHAB	CONF_DESC	
			01	DD	0044A	PUSHL	#1		
		00000000G	8F	DD	0044C	PUSHL	#SET\$OPENDIR		
00000000G	00		04	FB	00452	CALLS	#4, LIB\$STOP		

			00000000G	00	08	AE	DD	00459	418:	PUSHL	TEMP CHAN	1419
			FD8C	CD	01	FB	0045C			CALLS	#1, SYSSDASSGN	
					28	AB	DD	00463	428:	MOVL	UIC VALUE, HEADER+60	1423
				9E	9A	AD46	7F	00469		PUSHAQ	ATR+2[PTR]	1424
					15	BO	0046D			MOVW	#21, @ (SP)+	
				9E	98	AD46	7F	00470		PUSHAQ	ATR[PTR]	1425
					04	BO	00474			MOVW	#4, @ (SP)+	
				9E	9C	AD46	7F	00477		PUSHAQ	ATR+4[PTR]	1426
					FD8C	CD	9E	0047B		MOVAB	HEADER+60, @ (SP)+	
					56	D6	00480			INCL	PTR	1427
02	FD64	47	02	AB	01	E1	00482	438:	BBC	#1, SETFILES\$FLAGS+2, 458	1435	
		CD		04	04	ED	00487		CMPZV	#4, #4, RECATR, #2	1437	
					1B	12	0048E		BNEQ	448		
					00771302	8F	DD	00490		PUSHL	#7803650	1439
					018C	CB	9F	00496		PUSHAB	CONF_DESC	
						01	DD	0049A		PUSHL	#1	
			00000000G	00	8F	DD	0049C		PUSHL	#SETS_WRITEERR		
					04	FB	004A2		CALLS	#4, LIB\$SIGNAL		
			FF67	CD	23	11	004A9		BRB	458		
				50	01	88	004AB	448:	BISB2	#1, FIB+23	1442	
				50	CD	3C	004B0		MOVZWL	RECATR+8, R0	1443	
		50		50	10	78	004B5		ASHL	#16, R0, R0		
				51	FD6E	CD	3C	004B9		MOVZWL	RECATR+10, R1	1444
FF6C	CD			50	51	C1	004BE		ADDL3	R1, R0, FIB+28		
					FD70	CD	B5	004C4		TSTW	RECATR+12	1445
						04	13	004C8		BEQL	458	
					FF6C	CD	D6	004CA		INCL	FIB+28	1446
		17	02	AB	03	E1	004CE	458:	BBC	#3, SETFILES\$FLAGS+2, 468	1452	
			FF5A	CD	2A	A7	DD	004D3		MOVL	42(R7), FIB+10	1455
			FF5E	CD	2E	A7	BO	004D9		MOVW	46(R7), FIB+14	1457
			FF65	CD	08	88	004DF		BISB2	#8, FIB+21	1459	
			FF7C	CD	34	AB	BO	004E4		MOVW	VR\$N VALUE, FIB+44	1461
					58	D4	004EA	468:	CLRL	STATOS	1468	
		1C	01	AB	03	E1	004EC		BBC	#3, SETFILES\$FLAGS+1, 478	1470	
				01	CD	91	004F1		CMPB	HEADER+7, #1	1473	
					FD57	18	12	004F6		BNEQ	488	
						EF	9F	004F8		PUSHAB	P.ADU	1476
					00000000'	01	DD	004FE		PUSHL	#1	1474
			00000000G	00	8F	DD	00500		PUSHL	#SETS_NOTODS2		
					03	FB	00506		CALLS	#3, LIB\$SIGNAL		
					009F	31	0050D	478:	BRW	578		
		0A	09	AB	01	E0	00510	488:	BBS	#1, SETFILES\$JFLAGS+1, 498	1483	
		05	09	AB	03	E0	00515		BBS	#3, SETFILES\$JFLAGS+1, 498		
					08	AB	95	0051A		TSTB	SETFILES\$JFLAGS	1484
					05	18	0051D		BGEQ	508		
			FD9B	CD	23	8A	0051F	498:	BICB2	#35, HEADER+72	1489	
				0F	09	AB	E9	00524	508:	BLBC	SETFILES\$JFLAGS+1, 518	1492
				01	07	EF	00528		EXTZV	#7, #1, SETFILES\$JFLAGS, R0	1496	
FD9B	50	08	AB	01	50	F0	0052E		INSV	R0, #1, #1, HEADER+72		
	CD			01	26	11	00535		BRB	538	1497	
					02	E1	00537	518:	BBC	#2, SETFILES\$JFLAGS+1, 528	1500	
					01	EF	0053C		EXTZV	#1, #1, SETFILES\$JFLAGS+1, R0	1504	
FD9B	50	09	AB	01	50	F0	00542		INSV	R0, #0, #1, HEADER+72		
	CD			00	12	11	00549		BRB	538	1505	
					04	E1	0054B	528:	BBC	#4, SETFILES\$JFLAGS+1, 548	1508	
					03	EF	00550		EXTZV	#3, #1, SETFILES\$JFLAGS+1, R0	1512	
FD9B	50	09	AB	01	50	F0	00556		INSV	R0, #5, #1, HEADER+72		
	CD			05								

FD98	50	08	14	0C	AB	02	88	0055D	538:	BISB2	#2, SETFILES\$MFLAGS	1513
	CD		AB	08	58	01	DO	00561		MOVL	#1, STATUS	1514
			01		01	02	E1	00564	548:	BBC	#2, SETFILES\$JFLAGS, 558	1517
			03		01	01	EF	00569		EXTZV	#1, #1, SETFILES\$JFLAGS, R0	1521
			01		50	02	FO	0056F		INSV	R0, #3, #1, HEADER+72	
			03		02	01	88	00576		BISB2	#2, SETFILES\$MFLAGS	1522
			58		01	04	DO	0057A		MOVL	#1, STATUS	1523
FD98	50	08	14	08	AB	03	E1	0057D	558:	BBC	#4, SETFILES\$JFLAGS, 568	1525
	CD		AB		01	03	EF	00582		EXTZV	#3, #1, SETFILES\$JFLAGS, R0	1529
			01		04	50	FO	00588		INSV	R0, #4, #1, HEADER+72	
			03		02	02	88	0058F		BISB2	#2, SETFILES\$MFLAGS	1530
			58		01	01	DO	00593		MOVL	#1, STATUS	1531
FD98	50	08	14	08	AB	06	E1	00596	568:	BBC	#6, SETFILES\$JFLAGS, 578	1533
	CD		AB		01	05	EF	00598		EXTZV	#5, #1, SETFILES\$JFLAGS, R0	1537
			01		02	50	FO	005A1		INSV	R0, #2, #1, HEADER+72	
			03		02	02	88	005AB		BISB2	#2, SETFILES\$MFLAGS	1538
			58		01	01	DO	005AC		MOVL	#1, STATUS	1539
			01		58	01	DI	005AF	578:	CPL	STATUS, #1	1548
					19	12	005B2			BNEQ	588	
					9A	AD46	7F	005B4		PUSHAQ	ATR+2(PTR)	1551
					9E	1D	80	005B8		MOVW	#29, @ (SP)+	
					98	AD46	7F	005BB		PUSHAQ	ATR(PTR)	1552
					9E	02	80	005BF		MOVW	#2, @ (SP)+	
					9C	AD46	7F	005C2		PUSHAQ	ATR+4(PTR)	1553
					9E	FD98	CD	9E	005C6	MOVAB	HEADER+72, @ (SP)+	
						56	D6	005CB		INCL	PTR	1554
03		0C	AB		01	EO	005CD	588:	BBS	#1, SETFILES\$MFLAGS, 608	1562	
					00BD	31	005D2	598:	BRW	648		
F8		0C	AB		02	EO	005D5	608:	BBS	#2, SETFILES\$MFLAGS, 598		
	00000000		EF	0E000820	8F	DO	005DA		MOVL	#234883104, RMSJNLID ACE	1568	
			50	FD40	CD	9E	005E5		MOVAB	ITEM LIST, \$\$ITMBLKPTR	1574	
			80	0022000C	8F	DO	005EA		MOVL	#2228236, (\$\$ITMBLKPTR)+		
			80	FCF8	CD	9E	005F1		MOVAB	LABEL BUFFER, (\$\$ITMBLKPTR)+		
					80	7C	005F6		CLRQ	(\$\$ITMBLKPTR)+		
					7E	7C	005F8		CLRQ	-(SP)	1577	
					7E	D4	005FA		CLRL	-(SP)		
					FCF0	CD	9F	005FC	PUSHAB	IOSB		
					FD40	CD	9F	00600	PUSHAB	ITEM LIST		
						7E	D4	00604	CLRL	-(SP)		
						59	DD	00606	PUSHL	R9		
						01	DD	00608	PUSHL	#1		
00000000G			00		08	FB	0060A		CALLS	#8, SYSSGETDVI		
			58		50	DO	00611		MOVL	R0, STATUS		
			08		58	E9	00614		BLBC	STATUS, 618	1578	
					01	DD	00617		PUSHL	#1	1580	
00000000G			00		01	FB	00619		CALLS	#1, SYSSWAITFR		
					13	11	00620		BRB	628		
					7E	D4	00622	618:	CLRL	-(SP)	1582	
					58	DD	00624		PUSHL	STATUS		
					7E	D4	00626		CLRL	-(SP)		
					00771124	8F	DD	00628	PUSHL	#7803172		
00000000G			00		04	FB	0062E		CALLS	#4, LIB\$SIGNAL		
			16		CD	E8	00635	628:	BLBS	IOSB, 638	1583	
					7E	D4	0063A		CLRL	-(SP)	1585	
					7E	FCF0	CD	3C	MOVZWL	IOSB, -(SP)		
						7E	D4	00641	CLRL	-(SP)		
					00771124	8F	DD	00643	PUSHL	#7803172		

00000000*	EF	00000000G	00	04	FB	00649	CALLS	#4, LIBSSIGNAL	1587
		FCF8	CD	0C	28	00650	MOVCS	#12, LABEL BUFFER, RMSJNLID_ACE+4	1589
		00000000*	EF	24	A7	0065A	MOVL	36(R7), RMSJNLID_ACE+16	1591
		00000000*	EF	28	A7	00662	MOVW	40(R7), RMSJNLID_ACE+20	1593
		00000000G	00	01	FB	0066A	PUSHAB	RMSJNLID_ACE+24	
			9A	AD46	7F	00670	CALLS	#1, SYSSGETTIM	1595
			9E	1F	BO	0067B	PUSHAQ	ATR+2[PTR]	
			98	AD46	7F	0067E	MOVW	#31, @ (SP)+	1596
			9E	20	BO	00682	PUSHAQ	ATR[PTR]	
			9C	AD46	7F	00685	MOVW	#32, @ (SP)+	1597
			9E	00000000*	EF	9E	PUSHAQ	ATR+4[PTR]	
				56	D6	00689	MOVAB	RMSJNLID_ACE, @ (SP)+	1598
3C	09		AB	05	E1	00690	INCL	PTR	1610
			9A	AD46	7F	00692	BBC	#5, SETFILESJFLAGS+1, 658	1613
			9E	1F	BO	00697	PUSHAQ	ATR+2[PTR]	
			50	0170	CB	0069B	MOVW	#31, @ (SP)+	1614
			50	04	CO	0069E	MOVZWL	AI_JNL_DESC, R0	
			98	AD46	7F	006A3	ADDL2	#4, R0	
			9E	50	BO	006A6	PUSHAQ	ATR[PTR]	
			9C	AD46	7F	006AA	MOVW	R0, @ (SP)+	1615
			9E	FD2C	CD	9E	PUSHAQ	ATR+4[PTR]	
				56	D6	006B1	MOVAB	AI_JNL_ACE, @ (SP)+	1616
		FD2C	CD	50	90	006B6	INCL	PTR	1618
		FD2D	CD	03	90	006B8	MOVB	R0, AI_JNL_ACE	1619
		FD2E	CD	0600	BF	006BD	MOVB	#3, AI_JNL_ACE+1	1620
FD30	CD	0174	DB	0170	CB	006C2	MOVW	#1536, AI_JNL_ACE+2	1624
	3C	09	AB	06	E1	006C9	MOVCS	AI_JNL_DESC, @AI_JNL_DESC+4, AI_JNL_ACE+4	1631
			9A	AD46	7F	006D3	BBC	#6, SETFILESJFLAGS+1, 668	1634
			9E	1F	BO	006D8	PUSHAQ	ATR+2[PTR]	
			50	0178	CB	006DC	MOVW	#31, @ (SP)+	1635
			50	04	CO	006DF	MOVZWL	AT_JNL_DESC, R0	
			98	AD46	7F	006E4	ADDL2	#4, R0	
			9E	50	BO	006E7	PUSHAQ	ATR[PTR]	
			9C	AD46	7F	006EB	MOVW	R0, @ (SP)+	1636
			9E	FD18	CD	9E	PUSHAQ	ATR+4[PTR]	
				56	D6	006EE	MOVAB	AT_JNL_ACE, @ (SP)+	1637
		FD18	CD	50	90	006F2	INCL	PTR	1639
		FD19	CD	04	90	006F7	MOVB	R0, AT_JNL_ACE	1640
		FD1A	CD	0600	BF	006FE	MOVB	#4, AT_JNL_ACE+1	1641
FD1C	CD	017C	DB	0178	CB	00703	MOVW	#1536, AT_JNL_ACE+2	1645
			09	AB	95	0070A	MOVCS	AT_JNL_DESC, @AT_JNL_DESC+4, AT_JNL_ACE+4	1652
				3C	18	00714	TSTB	SETFILESJFLAGS+1	1655
			9A	AD46	7F	00717	BGEQ	678	
			9E	1F	BO	00719	PUSHAQ	ATR+2[PTR]	1656
			50	0180	CB	0071D	MOVW	#31, @ (SP)+	
			50	04	CO	00720	MOVZWL	BI_JNL_DESC, R0	
			98	AD46	7F	00725	ADDL2	#4, R0	
			9E	50	BO	00728	PUSHAQ	ATR[PTR]	
			9C	AD46	7F	0072C	MOVW	R0, @ (SP)+	1657
			9E	FD04	CD	9E	PUSHAQ	ATR+4[PTR]	
				56	D6	00733	MOVAB	BI_JNL_ACE, @ (SP)+	1658
		FD04	CD	50	90	00738	INCL	PTR	1660
		FD05	CD	02	90	0073A	MOVB	R0, BI_JNL_ACE	1661
		FD06	CD	0600	BF	0073F	MOVB	#2, BI_JNL_ACE+1	1662
FD08	CD	0184	DB	0180	CB	00744	MOVW	#1536, BI_JNL_ACE+2	1666
				80	AD	00748	MOVCS	BI_JNL_DESC, @BI_JNL_DESC+4, BI_JNL_ACE+4	1674
						00755	CLRL	FIB+48	

08

05 02 AB
73 02 AB
00 6EFCEB CD
FCEC CD00000000G 00
58
08
58
13

00000000V EF

13 01 AB

00000000G 00

08 02 AB
03 02 ABFF5A CD 2A
FF5E CD 2E
03 02 AB15 34 1A
A70077120A
018C

98 AD46 7F 00758
9E D4 0075C
56 D5 0075E
0A 12 00760
01 E0 00762
03 E1 00767
00 2C 0076C 688:
CD 00771
FCEB 8F 80 00774
0200 CE 9E 00778
0130 7E D4 00782
98 AD 9F 00784
FCEB CD 9F 00787
18 AE 9F 0078B
7E D4 0078E
90 AD 9F 00790
7E 7C 00793
FCF0 CD 9F 00795
36 DD 00799
59 DD 0079B
7E D4 0079D
0C FB 0079F
50 D0 007A6
58 E9 007A9
FCF0 CD 3C 007AC
58 E8 007B1
0500 8F BB 007B4 698:
00000000G 8F DD 007B8
03 FB 007BE
18 11 007C5
04 E1 007C7 708:
018C CB 9F 007CC
01 DD 007D0
00000000G 8F DD 007D2
03 FB 007D8
7E 7C 007DF 718:
7E 7C 007E1
7E D4 007E3
90 AD 9F 007E5
7E 7C 007E8
FCF0 CD 9F 007EA
34 DD 007EE
59 DD 007F0
7E D4 007F2
0C FB 007F4
05 E0 007FB 728:
04 E0 00800
0385 31 00805
A7 D0 00808 738:
2E A7 B0 0080E
05 E0 00814
00FC 31 00819
34 A7 E8 0081C 748:
03 E0 00820
0077120A 8F DD 00825
018C CB 9F 0082B
01 DD 0082F

PUSHAQ ATR[PTR]
CLRL @ (SP)+
TSTL PTR
BNEQ 688
BBS #1, SETFILES\$FLAGS+2, 688
BBC #3, SETFILES\$FLAGS+2, 718
MOVCS #0, (SP), #0, #8, RES_DESC
MOVW #512, RES_DESC
MOVAB RES_BUF, RES_DESC+4
CLRL -(SP)
PUSHAB ATR
PUSHAB RES_DESC
PUSHAB RES_LEN
CLRL -(SP)
PUSHAB DESC
CLRQ -(SP)
PUSHAB IOSB
PUSHL #54
PUSHL R9
CLRL -(SP)
CALLS #12, SYS\$QIOW
MOVL R0, STATUS
BLBC STATUS, 698
MOVZWL IOSB, STATUS
BLBS STATUS, 708
PUSHR #M<R8,R10>
PUSHL #SET\$WRITEERR
CALLS #3, FILE_ERROR
BRB 718
BBC #4, SETFILES\$FLAGS+1, 718
PUSHAB CONF_DESC
PUSHL #1
PUSHL #SET\$MODIFIED
CALLS #3, LIB\$SIGNAL
CLRQ -(SP)
CLRQ -(SP)
CLRL -(SP)
PUSHAB DESC
CLRQ -(SP)
PUSHAB IOSB
PUSHL #52
PUSHL R9
CLRL -(SP)
CALLS #12, SYS\$QIOW
BBS #5, SETFILES\$FLAGS+2, 738
BBS #4, SETFILES\$FLAGS+2, 738
BRW 988
MOVL 42(R7), FIB+10
MOVW 46(R7), FIB+14
BBS #5, SETFILES\$FLAGS+2, 748
BRW 838
BLBS 52(R7), 758
BBS #3, 52(R7), 758
PUSHL #7803402
PUSHAB CONF_DESC
PUSHL #1

1675
1677
1678
1679
1685
1686
1687
1694
1695
1696
1697
1699
1700
1710
1717
1725
1727
1732
1739
1740
1741

		00000000G	8F	DD	00831	PUSHL	#SETS_REMERR		
			034C	31	00837	BRW	97\$		
59	5D	03	AB	E8	0083A	75\$:	BLBS	SETFILES\$FLAGS+3, 79\$	1752
	6B		03	E1	0083E		BBC	#3, SETFILES\$FLAGS, 79\$	1753
	6E	018C	CB	9E	00842		MOVAB	CONF_DESC, (SP)	1758
			5E	DD	00847		PUSHL	SP	
		00000000	EF	9F	00849		PUSHAB	P,ADW	1757
	00		02	FB	0084F		CALLS	#2, LIB\$CONFIRM_ACT	
	58		50	DD	00856		MOVL	R0, STATUS	
	3F		58	E8	00859		BLBS	STATUS, 79\$	1759
	8F		58	D1	0085C		CMPL	STATUS, #LIB\$QUIPRO	1762
			03	12	00863		BNEQ	76\$	
			0285	31	00865		BRW	89\$	
	8F		58	D1	00868	76\$:	CMPL	STATUS, #LIB\$QUICONACT	1764
			09	12	0086F		BNEQ	77\$	
	03	AB	01	88	00871		BISB2	#1, SETFILES\$FLAGS+3	1765
	58		01	DD	00875		MOVL	#1, STATUS	
			1E	11	00878		BRB	78\$	
	8F		58	D1	0087A	77\$:	CMPL	STATUS, #LIB\$NEGANS	1766
			15	13	00881		BEQL	78\$	
		018C	58	DD	00883		PUSHL	STATUS	1767
			CB	9F	00885		PUSHAB	CONF_DESC	
			01	DD	00889		PUSHL	#1	
		00000000G	8F	DD	0088B		PUSHL	#SETS_WRITEERR	
	00		04	FB	00891		CALLS	#4, LIB\$SIGNAL	
	7A		58	E9	00898	78\$:	BLBC	STATUS, 82\$	1769
		FF54	CD	D4	0089B	79\$:	CLRL	FIB+4	1775
		FF58	CD	B4	0089F		CLRW	FIB+8	1777
	50	3B	A7	9A	008A3		MOVZBL	59(R7), R0	1784
	51	3C	A7	9A	008A7		MOVZBL	60(R7), R1	
	50		51	C0	008AB		ADDL2	R1, R0	
	52	3D	A7	9A	008AE		MOVZBL	61(R7), R2	1785
0138	CB		52	C1	008B2		ADDL3	R2, R0, FILE_NAME	
	013C	CB	4C	A7	DD	008B8	MOVL	76(R7), FILE_NAME+4	1786
			7E	7C	008BE		CLRQ	-(SP)	1795
			7E	7C	008C0		CLRQ	-(SP)	
	0138	CB	9F	008C2			PUSHAB	FILE_NAME	
	90	AD	9F	008C6			PUSHAB	DESC	
		7E	7C	008C9			CLRQ	-(SP)	
	FCF0	CD	9F	008CB			PUSHAB	IOSB	
		35	DD	008CF			PUSHL	#53	
	7E	2C	AE	3C	008D1		MOVZWL	CHANNEL, -(SP)	
			7E	D4	008D5		CLRL	-(SP)	
	00000000G	00	0C	FB	008D7		CALLS	#12, SYS\$QIOW	
	58		50	DD	008DE		MOVL	R0, STATUS	
	08		58	E9	008E1		BLBC	STATUS, 80\$	1796
	58	FCF0	CD	3C	008E4		MOVZWL	IOSB, STATUS	
	11		58	E8	008E9		BLBS	STATUS, 81\$	1797
			58	DD	008EC	80\$:	PUSHL	STATUS	1801
	0138	CB	9F	008EE			PUSHAB	FILE_NAME	1798
			01	DD	008F2		PUSHL	#1	
		00000000G	8F	DD	008F4		PUSHL	#SETS_WRITEERR	
			0289	31	008FA		BRW	97\$	
13	01	AB	04	E1	008FD	81\$:	BBC	#4, SETFILES\$FLAGS+1, 82\$	1803
		018C	CB	9F	00902		PUSHAB	CONF_DESC	1804
			01	DD	00906		PUSHL	#1	
		00000000G	8F	DD	00908		PUSHL	#SETS_REMOVED	

0050	8F	00	00000000G	00	03	FB	0090E	CALLS	#3, LIB\$SIGNAL	1750
					0275	31	00915	BRW	98\$	1827
					00	2C	00918	MOVCS	#0, (SP), #0, #80, \$RMS_PTR	
			02E0	CE	00		0091F			
			5003	8F	80		00922	MOVW	#20483, \$RMS_PTR	
			02E0	CE	02	90	00929	MOVB	#2, \$RMS_PTR+22	
			02F6	CE	02	90	0092E	MOVB	#2, \$RMS_PTR+31	
			02FF	CE	02	90	00933	MOVAB	NEW_NAM, \$RMS_PTR+40	
			0308	CE	0280	CE	0093A	MOVL	FILE_NAME+4, \$RMS_PTR+44	
			030C	CE	013C	CB	00941	MOVB	FILE_NAME, \$RMS_PTR+52	
0060	8F	00	0314	CE	0138	CB	00948	MOVCS	#0, (SP), #0, #96, \$RMS_PTR	1831
					00	2C	0094F			
			0280	CE	0280	CE	00952	MOVW	#24578, \$RMS_PTR	
			6002	8F	80		00959	MNEGB	#1, \$RMS_PTR+10	
			028A	CE	01	8E	0095E	MOVAB	NEW_NAM_EXP, \$RMS_PTR+12	
			028C	CE	0118	CE	00965	MOVL	R7, \$RMS_PTR+16	
		10	0290	CE	57	DO	0096A	BBC	#3, 52(R7), 84\$	1836
			34	A7	03	E1	0096F	MOVAB	P_ADY, NEW_FAB+48	1839
			0310	CE	00000000'	EF	00978	MOVB	#2, NEW_FAB+53	1840
			0315	CE	02	90	0097D	BRB	85\$	1836
					08	11	0097F	CLRL	NEW_FAB+48	1844
			0310	CE	0310	CE	00983	CLRB	NEW_FAB+53	1845
			0315	CE	02E0	CE	00987	PUSHAB	NEW_FAB	1851
			02E0	CE	01	FB	0098B	CALLS	#1, SY\$PARSE	
			00000000G	00	50	DO	00992	MOVL	R0, STATUS	
0220	CE	0280	CE	0060	8F	28	00995	MOVCS	#96, NEW_NAM, NEW_NAM2	1852
		F62C	CF	02E0	CE	9F	0099F	PUSHAB	NEW_FAB	1853
		1C	1C		01	FB	009A3	CALLS	#1, PARSE_NULL_STRING	
					58	E8	009A8	BLBS	STATUS, 86\$	1854
					58	DD	009AB	PUSHL	STATUS	1861
			0138	CB	9F	009AD	009AB	PUSHAB	FILE_NAME	1857
			018C	CB	9F	009B1	009AB	PUSHAB	CONF_DESC	
					02	DD	009B5	PUSHL	#2	
			00000000G	00	8F	DD	009B7	PUSHL	#SET\$ ENTERR	
					05	FB	009BD	CALLS	#5, LIB\$STOP	
0050	8F	00	00000000G	00	0239	31	009C4	BRW	102\$	1862
					00	2C	009C7	MOVCS	#0, (SP), #0, #80, \$RMS_PTR	1872
					CE		009CE			
			02E0	CE	8F	80	009D1	MOVW	#20483, \$RMS_PTR	
			5003	CE	8F	DO	009D8	MOVL	#536870912, \$RMS_PTR+4	
			20000000	CE	02	90	009E1	MOVB	#2, \$RMS_PTR+22	
			02E0	CE	02	90	009E6	MOVB	#2, \$RMS_PTR+31	
			02F6	CE	0280	CE	009EB	MOVAB	NEW_NAM, \$RMS_PTR+40	
			02FF	CE	022C	CE	009F2	MOVL	NEW_NAM2+12, \$RMS_PTR+44	
			0308	CE	0228	CE	009F9	MOVB	NEW_NAM2+11, \$RMS_PTR+52	
0060	8F	00	030C	CE	00	2C	00A00	MOVCS	#0, (SP), #0, #96, \$RMS_PTR	1876
			0314	CE	0280	CE	00A07			
					6002	8F	00A0A	MOVW	#24578, \$RMS_PTR	
			0280	CE	01	8E	00A11	MNEGB	#1, \$RMS_PTR+10	
			028A	CE	18	AE	00A16	MOVAB	NEW_NAM_EXP2, \$RMS_PTR+12	
			028C	CE	57	DO	00A1C	MOVL	R7, \$RMS_PTR+16	
			0290	CE	02E0	CE	00A21	PUSHAB	NEW_FAB	1878
					01	FB	00A25	CALLS	#1, SY\$PARSE	
			00000000G	00	50	DO	00A2C	MOVL	R0, STATUS	
0220	CE	0280	CE	0060	8F	28	00A2F	MOVCS	#96, NEW_NAM, NEW_NAM2	1879
		F592	CF	02E0	CE	9F	00A39	PUSHAB	NEW_FAB	1880
					01	FB	00A3D	CALLS	#1, PARSE_NULL_STRING	

1C	58	E8	00A42	BLBS	STATUS, 878	1881
	58	DD	00A45	PUSHL	STATUS	1888
	0138	CB	9F 00A47	PUSHAB	FILE_NAME	1884
	018C	CB	9F 00A48	PUSHAB	CONF_DESC	
		02	DD 00A4F	PUSHL	#2	
00000000G	00	8F	DD 00A51	PUSHL	#SETS ENTERR	
		05	FB 00A57	CALLS	#5, LIBSSIGNAL	
		019F	31 00A5E	BRW	1028	1889
FCE8	CD	022B	CE 9A 00A61	MOVZBL	NEW_NAM2+11, NEW_NAME	1895
FCEC	CD	022C	CE DO 00A68	MOVL	NEW_NAM2+12, NEW_NAME+4	1896
	50	025B	CE 9A 00A6F	MOVZBL	NEW_NAM2+59, R0	1902
	51	025C	CE 9A 00A74	MOVZBL	NEW_NAM2+60, R1	
	50		51 CO 00A79	ADDL2	R1, R0	
	52	025D	CE 9A 00A7C	MOVZBL	NEW_NAM2+61, R2	1903
0218	CE	50	52 A1 00A81	ADDW3	R2, R0, NEW_DESC	
		021C	CE DO 00A87	MOVL	NEW_NAM2+76, NEW_DESC+4	1904
		FF5A	CD DO 00A8E	MOVL	NEW_NAM2+42, FIB+10	1909
		FF5E	CD BO 00A95	MOVW	NEW_NAM2+46, FIB+14	1911
		51	14 A7 9A 00A9C	MOVZBL	20(R7), R1	1918
		50	0234	MOVZBL	NEW_NAM2+20, R0	1919
50	00	15	A7 51 2D 00AA5	CMPC5	R1, 21(R7), #0, R0, NEW_NAM2+21	1918
			0235	CE	00AAB	
			09	13	00AAE	
			8F	DD	00AB0	
			009F	31	00AB6	
6A	03	AB	01 E0 00AB9	888:		
66		6B	03 E1 00ABE			
	10	AE	018C CB 9E 00AC2			
	14	AE	FCE8 CD 9E 00AC8			
			10 AE 9F 00ACE			
			00000000	EF 9F 00AD1		
00000000G	00		02 FB 00AD7	CALLS	#2, LIB\$CONFIRM_ACT	
	58		50 DO 00ADE	MOVL	R0, STATUS	
	44		58 E8 00AE1	BLBS	STATUS, 938	1943
00000000G	8F		58 D1 00AE4	CMPL	STATUS, #LIB\$QUIPRO	1946
			08 12 00AEB	BNEQ	908	
02	AB	40	8F 88 00AED	898:	#64, SETFILES\$FLAGS+2	1947
			010B 31 00AF2	BRW	1028	
00000000G	8F		58 D1 00AF5	908:	CMPL STATUS, #LIB\$QUICONACT	1948
			09 12 00AFC	BNEQ	918	
03	AB		02 88 00AFE	BISB2	#2, SETFILES\$FLAGS+3	1949
	58		01 DO 00B02	MOVL	#1, STATUS	
			1E 11 00B05	BRB	928	
00000000G	8F		58 D1 00B07	918:	CMPL STATUS, #LIB\$NEGANS	1950
			15 13 00B0E	BEQL	928	
			58 DD 00B10	PUSHL	STATUS	1951
			018C CB 9F 00B12	PUSHAB	CONF_DESC	
			01 DD 00B16	PUSHL	#1	
			8F DD 00B18	PUSHL	#SETS WRITEERR	
00000000G	00		04 FB 00B1E	CALLS	#4, LIBSSIGNAL	
	65		58 E9 00B25	928:	BLBC STATUS, 988	1953
			7E 7C 00B28	938:	CLRQ -(SP)	1966
			7E 7C 00B2A	CLRQ	-(SP)	
			0228 CE 9F 00B2C	PUSHAB	NEW_DESC	
			90 AD 9F 00B30	PUSHAB	DESC	
			7E 7C 00B33	CLRQ	-(SP)	
			FCF0 CD 9F 00B35	PUSHAB	IOSB	

	7E	2C	33	DD	00B39	PUSHL	#51		
			AE	3C	00B3B	MOVZWL	CHANNEL, -(SP)		
			7E	D4	00B3F	CLRL	-(SP)		
00000000G	00		0C	FB	00B41	CALLS	#12, SYS\$QIOW		
	58		50	DD	00B48	MOVL	R0, STATUS		
	08		58	E9	00B4B	BLBC	STATUS, 94\$		1967
	58	FCF0	CD	3C	00B4E	MOVZWL	IOSB, STATUS		
	1B		58	E8	00B53	BLBS	STATUS, 96\$		1968
			58	DD	00B56	PUSHL	STATUS		1973
		FCEB	CD	9F	00B58	PUSHAB	NEW_NAME		1969
		018C	CB	9F	00B5C	PUSHAB	CONF_DESC		
			02	DD	00B60	PUSHL	#2		
		00000000G	8F	DD	00B62	PUSHL	#SETS ENTERR		
00000000G	00		05	FB	00B68	CALLS	#5, LIB\$SIGNAL		
			1C	11	00B6F	BRB	98\$		
17	01	AB	04	E1	00B71	BBC	#4, SETFILES\$FLAGS+1, 98\$		1975
		FCEB	CD	9F	00B76	PUSHAB	NEW_NAME		1976
		018C	CB	9F	00B7A	PUSHAB	CONF_DESC		
			02	DD	00B7E	PUSHL	#2		
		00000000G	8F	DD	00B80	PUSHL	#SETS ENTERED		
00000000G	00		04	FB	00B86	CALLS	#4, LIB\$SIGNAL		
24	02	AB	02	E1	00B8D	BBC	#2, SETFILES\$FLAGS+2, 99\$		1983
			5A	DD	00B92	PUSHL	R10		1985
00000000V	EF		01	FB	00B94	CALLS	#1, UNLOCK_ACTION		
	58		50	DD	00B9B	MOVL	R0, STATUS		
	15		58	E8	00B9E	BLBS	STATUS, 99\$		
			58	DD	00BA1	PUSHL	STATUS		1987
		018C	CB	9F	00BA3	PUSHAB	CONF_DESC		
			01	DD	00BA7	PUSHL	#1		
		00000000G	8F	DD	00BA9	PUSHL	#SETS UNLOCKERR		
00000000G	00		04	FB	00BAF	CALLS	#4, LIB\$SIGNAL		
	24	02	AB	E9	00BB6	BLBC	SETFILES\$FLAGS+2, 100\$		1992
			5A	DD	00BBA	PUSHL	R10		1994
00000000V	EF		01	FB	00BBC	CALLS	#1, SETPRO_ACTION		
	58		50	DD	00BC3	MOVL	R0, STATUS		
	15		58	E8	00BC6	BLBS	STATUS, 100\$		
			58	DD	00BC9	PUSHL	STATUS		1996
		018C	CB	9F	00BCB	PUSHAB	CONF_DESC		
			01	DD	00BCF	PUSHL	#1		
		00000000G	8F	DD	00BD1	PUSHL	#SETS PROERR		
00000000G	00		04	FB	00BD7	CALLS	#4, LIB\$SIGNAL		
	7E	04	AE	3C	00BDE	MOVZWL	CHANNEL, -(SP)		2002
00000000G	00		01	FB	00BE2	CALLS	#1, SYS\$DASSGN		
	58		50	DD	00BE9	MOVL	R0, STATUS		
	11		58	E8	00BEC	BLBS	STATUS, 102\$		
		0500	8F	BB	00BEF	PUSHR	#M<R8,R10>		2003
		00000000G	8F	DD	00BF3	PUSHL	#SETS CLOSEERR		
00000000V	EF		03	FB	00BF9	CALLS	#3, FILE_ERROR		
	50		01	DD	00C00	MOVL	#1, R0		2005
			04	DD	00C03	RET			2006

; Routine Size: 3076 bytes, Routine Base: \$CODE\$ + 0693

```
2016 2007 1 GLOBAL ROUTINE file_error (status1,status2,fab) =
2017 2008 1 **
2018 2009 1
2019 2010 1 This routine is called if an error occurred while trying to access
2020 2011 1 a file. The kind of error is signalled, along with the file name.
2021 2012 1
2022 2013 1 --
2023 2014 1 BEGIN
2024 2015 1
2025 2016 1 MAP
2026 2017 1     fab : REF $BLOCK;           ! Define the fab
2027 2018 1
2028 2019 1 BIND
2029 2020 1     status = status2 : $BLOCK,
2030 2021 1     nam = .fab[fab$l_nam] : $BLOCK; ! Define the name block
2031 2022 1
2032 2023 1
2033 2024 1 LOCAL
2034 2025 1     desc : VECTOR[2];           ! A temporary descriptor
2035 2026 1
2036 2027 1
2037 2028 1 Check to see if there's a name in the resultant string field.
2038 2029 1 If there is, use it.
2039 2030 1
2040 2031 1 IF .nam[nam$b_rsl] NEQ 0
2041 2032 1 THEN
2042 2033 1     BEGIN
2043 2034 1         desc[0] = .nam[nam$b_rsl];
2044 2035 1         desc[1] = .nam[nam$l_rsa];
2045 2036 1     END
2046 2037 1
2047 2038 1
2048 2039 1 If no resultant name, try the expanded name
2049 2040 1
2050 2041 1 ELSE IF .nam[nam$b_esl] NEQ 0
2051 2042 1 THEN
2052 2043 1     BEGIN
2053 2044 1         desc[0] = .nam[nam$b_esl];
2054 2045 1         desc[1] = .nam[nam$l_esa];
2055 2046 1     END
2056 2047 1
2057 2048 1
2058 2049 1 If no expanded name, use the original name in the fab
2059 2050 1
2060 2051 1 ELSE
2061 2052 1     BEGIN
2062 2053 1         desc[0] = .fab[fab$b_fns];
2063 2054 1         desc[1] = .fab[fab$l_fna];
2064 2055 1     END;
2065 2056 1
2066 2057 1
2067 2058 1 Signal the error
2068 2059 1
2069 2060 1 SIGNAL(.status1,
2070 2061 1     1,
2071 2062 1     desc,
2072 2063 1     .status);
```

```
! Report error
! One FAO argument
! Which is the file name
! Plus original error
```

: 2073
: 2074

```
2064 2 RETURN true;
2065 1 END;
```

16-Sep-1984 00:53:51
14-Sep-1984 12:09:07

VAX-11 Bliss-32 V4.0-742
[CLIUTL.SRC]SETFILE.B32;1

Page 69
(10)

PC	OP	OP	OP	OP	ENTRY	FILE	ERROR	Save nothing
5E	0C	0B	0000	00000	SUBL2	#8, SP		
51	28	AC	D0	00005	MOVL	FAB, R1		
50	03	A1	D0	00009	MOVL	40(R1), R0		
		A0	95	0000D	TSTB	3(R0)		
		0B	13	00010	BEQL	1\$		
04	03	A0	9A	00012	MOVZBL	3(R0), DESC		
AE	04	A0	D0	00016	MOVL	4(R0), DESC+4		
		19	11	0001B	BRB	3\$		
	0B	A0	95	0001D	TSTB	11(R0)		
		0B	13	00020	BEQL	2\$		
	0B	A0	9A	00022	MOVZBL	11(R0), DESC		
04	0C	A0	D0	00026	MOVL	12(R0), DESC+4		
		09	11	0002B	BRB	3\$		
	34	A1	9A	0002D	MOVZBL	52(R1), DESC		
04	2C	A1	D0	00031	MOVL	44(R1), DESC+4		
	0B	AC	DD	00036	PUSHL	STATUS		
	04	AE	9F	00039	PUSHAB	DESC		
		01	DD	0003C	PUSHL	#1		
	04	AC	DD	0003E	PUSHL	STATUS1		
00000000G	00	04	FB	00041	CALLS	#4, LIB\$SIGNAL		
	50	01	D0	00048	MOVL	#1, R0		
		04	0004B	RET				

; Routine Size: 76 bytes, Routine Base: \$CODES + 1297

: 2075 2066 1

```
2077 GLOBAL ROUTINE check_privilege : NOVALUE =
2078 ++
2079
2080 This routine checks that the image has the correct privilege.
2081
2082 ---
2083 BEGIN
2084
2085 LOCAL
2086     status,
2087     oldpriv : $BBLOCK[8];           ! Permanent privileges go here
2088
2089 OWN
2090     newpriv : $BBLOCK[8]           ! Mask to disable SYSPRV
2091     PRESET([priv$v_syspriv]=true);
2092
2093
2094 The image SET is installed with SYSPRV privilege, but we don't want the user
2095 to have that much power unless s/he already has it. So, first check to
2096 see if the process has the privilege, and if not, then remove it for the
2097 duration of this image.
2098
2099 IF NOT (status = $SETPRV(ENBFLG = 1,           ! Enable
2100                      PRVADR = 0,             ! No new privileges
2101                      PRMFLG = 1,             ! Permanent privs
2102                      PRVPRV = oldpriv))      ! Store current ones here
2103 THEN SIGNAL_STOP(.status);
2104
2105 Check to see if privilege there. If not, then remove it from current
2106 privileges.
2107
2108 IF NOT .oldpriv[priv$v_syspriv]              ! If SYSPRV not permanent
2109 THEN
2110     BEGIN
2111         IF NOT (status = $SETPRV(ENBFLG = 0,   ! Disable
2112                      PRVADR = newpriv,         ! this privilege
2113                      PRMFLG = 0,               ! for the duration of this image
2114                      PRVPRV = 0))
2115         THEN SIGNAL_STOP(.status)
2116     END;
2117
2118 RETURN;
2119 END;
```

.PSECT \$OWNS,NOEXE,2

```
00# 0002A NEWPRIV: .BLKB 2
10 0002C .BYTE 0[3]
    0002F .BYTE 16
    00030 .BLKB 4
```

.PSECT \$CODE\$,NOWRT,2

			001C	00000	.ENTRY	CHECK PRIVILEGE, Save R2,R3,R4	2067
54	00000000G	00	9E	00002	MOVAB	SYSS\$SETPRV, R4	
53	00000000G	00	9E	00009	MOVAB	LIB\$STOP, R3	
5E		08	C2	00010	SUBL2	#8, SP	
		5E	DD	00013	PUSHL	SP	2092
		01	DD	00015	PUSHL	#1	
7E		01	7D	00017	MOVQ	#1, -(SP)	
64		04	FB	0001A	CALLS	#4, SYSS\$SETPRV	
52		50	DD	0001D	MOVL	R0, STATUS	
05		52	EB	00020	BLBS	STATUS, 1\$	
		52	DD	00023	PUSHL	STATUS	2093
63		01	FB	00025	CALLS	#1, LIB\$STOP	
18	03	AE	04	EO	00028	1\$: BBS	2098
			7E	7C	0002D	CLRQ	2104
	00000000'	EF	9F	0002F	PUSHAB	NEWPRIV	
		7E	D4	00035	CLRL	-(SP)	
64		04	FB	00037	CALLS	#4, SYSS\$SETPRV	
52		50	DD	0003A	MOVL	R0, STATUS	
05		52	EB	0003D	BLBS	STATUS, 2\$	
		52	DD	00040	PUSHL	STATUS	2105
63		01	FB	00042	CALLS	#1, LIB\$STOP	
		04	00045	2\$: RET			2109

; Routine Size: 70 bytes, Routine Base: \$CODE\$ + 12E3

```
2121 GLOBAL ROUTINE search_error (fab) =
2122 ++
2123 --
2124 This routine is called when lib$file_scan detects an error while
2125 searching for a file specified in the command line.
2126 --
2127 BEGIN
2128 MAP
2129     fab : REF $BBLOCK;                ! Define FAB format
2130 BIND
2131     nam = .fab[fab$l_nam] : $BBLOCK;    ! Define NAM block
2132 LOCAL
2133     desc : VECTOR[2];                 ! A temporary descriptor
2134 --
2135 Check to see if there's a name in the resultant string field.
2136 If there is, use it.
2137 IF .nam[nam$b_rsl] NEQ 0
2138 THEN
2139     BEGIN
2140         desc[0] = .nam[nam$b_rsl];
2141         desc[1] = .nam[nam$l_rsa];
2142     END
2143 --
2144 If no resultant name, try the expanded name
2145 ELSE IF .nam[nam$b_esl] NEQ 0
2146 THEN
2147     BEGIN
2148         desc[0] = .nam[nam$b_esl];
2149         desc[1] = .nam[nam$l_esa];
2150     END
2151 --
2152 If no expanded name, use the original name in the fab
2153 ELSE
2154     BEGIN
2155         desc[0] = .fab[fab$b_fns];
2156         desc[1] = .fab[fab$l_fna];
2157     END;
2158 --
2159 Signal the error
2160 SIGNAL_STOP(set$searchfail,
2161     1,                                ! One FAO argument
2162     desc,                             ! Which is the file name
2163     .fab[fab$l_sts],                  ! Show RMS error code
2164     .fab[fab$l_stv]);                ! And secondary error code
2165 RETURN true;
```

: 2178

2167 1 END:

J 8
16-Sep-1984 00:53:51
14-Sep-1984 12:09:07

VAX-11 B11ss-32 V4.0-742
[CLINTL.SAC]SETFILE.B32:1

Page 73
(12)

Address	Instruction	Comment	PC
0000	00000	ENTRY	2110
0001	00002	SEARCH_ERROR, Save nothing	2111
0002	00005	SUBL2 #8, SP	2112
0003	00009	MOVL FAB, R1	2123
0004	0000D	MOVL 40(R1), R0	2132
0005	00010	TSTB 3(R0)	2135
0006	00012	BEQL 1\$	2136
0007	00016	MOVZBL 3(R0), DESC	2132
0008	0001B	MOVL 4(R0), DESC+4	2142
0009	0001D	BRB 3\$	2145
0010	00020	TSTB 11(R0)	2146
0011	00022	BEQL 2\$	2142
0012	00026	MOVZBL 11(R0), DESC	2154
0013	0002B	MOVL 12(R0), DESC+4	2155
0014	0002D	BRB 3\$	2164
0015	00031	MOVZBL 52(R1), DESC	2161
0016	00036	MOVL 44(R1), DESC+4	2166
0017	0003A	MOVQ 8(R1), -(SP)	2167
0018	0003D	PUSHAB DESC	
0019	0003F	PUSHL #1	
0020	00045	PUSHL #7803450	
0021	0004C	CALLS #5, LIB\$STOP	
0022	0004F	MOVL #1, R0	
0023	00050	RET	

; Routine Size: 80 bytes, Routine Base: SCODES + 1329

```
2180 ROUTINE unlock_action (fab) =
2181 -----
2182 Functional description
2183 This routine is called from SET_ATTRIBUTES whenever
2184 a successful file match for /LOCK occurs
2185
2186 Input parameters
2187 fab = Address of block describing the file
2188
2189 Output parameters
2190 None
2191 -----
2192 BEGIN
2193 MAP fab: REF $BLOCK; ! Define fab block format
2194 LOCAL status; ! Receives status
2195
2196 | If /CONFIRM was set by the user then interrogate him to see if
2197 | this file is to be unlocked
2198 IF
2199 BEGIN
2200 IF .setfile$flags[qual_quit_unlock]
2201 OR NOT .setfile$flags[qual_confirm]
2202 THEN true
2203 ELSE
2204 BEGIN
2205 status = lib$confirm_act(%ASCID 'Unlock file !AS? [N] : ',
2206 %REF(conf_desc));
2207 IF NOT .status
2208 THEN
2209 BEGIN
2210 IF .status EQL lib$quipro
2211 THEN (setfile$flags[qual_quit] = 1; RETURN true)
2212 ELSE IF .status EQL lib$quiconact
2213 THEN (setfile$flags[qual_quit_mod] = 1; status = 1)
2214 ELSE IF .status NEQ lib$negans
2215 THEN SIGNAL(set$writeerr, 1, conf_desc, .status);
2216 END;
2217 .status
2218 END
2219 THEN
2220 BEGIN
2221 | Call LIB$UNLOCK_FILE to unlock the file
2222
```



```
2237      IF NOT (status = lib$unlock_file(conf_desc))      ! Call unlock with file name
2238      THEN
2239          RETURN(status);
2240
2241      !-----
2242      ! Check to see if unlock worked. SSS_WASSET indicates the file
2243      ! was unlocked. SSS_WASCLR indicates the file was already unlocked
2244      ! and no other error occurred
2245
2246      IF (.status EQL SSS_WASCLR)      ! If file not locked
2247      THEN
2248          SIGNAL(set$_notlocked,1,conf_desc)
2249      ELSE
2250          IF .setfile$flags[qual log]      ! File was unlocked
2251          THEN SIGNAL(set$_unlocked,1,conf_desc);      ! if /LOG tell user
2252
2253      END;
2254      RETURN(true);      ! Both returns above
2255                          ! are ok!
2256
2257      END;
2258
```

```
53 41 21 20 65 6C 69 66 20 6B 63 6F 6C 6E 55 00458 P.AEC: .PSECT $PLITS,NOWRT,NOEXE,2
00 20 3A 20 5D 4E 5B 20 3F 00467 .ASCII \Unlock file !AS? [N] : \<0>
010E0017 00470 P.AEB: .LONG 17694743
00000000 00474 .ADDRESS P.AEC
```

```
.PSECT $CODE$,NOWRT,2
001C 00000 UNLOCK_ACTION:
54 00000000G 00 9E 00002 .WORD Save R2,R3,R4
53 00000000' EF 9E 00009 MOVAB LIB$SIGNAL, R4
5E 04 C2 00010 MOVAB SETFILE$FLAGS, R3
5A 03 03 E0 00013 SUBL2 #4, SP
63 03 E1 00018 BBS #3, SETFILE$FLAGS+3, 4$
6E 018C C3 9E 0001C BBC #3, SETFILE$FLAGS, 4$
00000000G 00 02 FB 00029 MOVAB CONF_DESC, (SP)
52 50 D0 00030 PUSHL SP
40 52 E8 00033 PUSHAB P.AEB
00000000G 8F 52 D1 00036 CALLS #2, LIB$CONFIRM_ACT
02 A3 40 8F 88 0003F MOVL R0, STATUS
00000000G 8F 52 D1 00046 BLBS STATUS, 4$
02 A3 80 8F 88 0004F CMPL STATUS, #LIB$_QUIPRO
52 01 D0 00054 BNEQ 1$
BISB2 #64, SETFILE$FLAGS+2
BRB 8$
CMPL STATUS, #LIB$_QUICONACT
BNEQ 2$
BISB2 #128, SETFILE$FLAGS+2
MOVL #1, STATUS
```

2168
2199
2200
2205
2204
2206
2209
2210
2211
2212

00000000G	8F	1A	11	00057	BRB	38			
		52	D1	00059	28:	CMPL	STATUS, #LIB\$NEGANS	2213	
		11	13	00060		BEQL	38		
	018C	52	DD	00062		PUSHL	STATUS	2214	
		C3	9F	00064		PUSHAB	CONF_DESC		
		01	DD	00068		PUSHL	#1		
	00000000G	8F	DD	0006A		PUSHL	#SET\$WRITEERR		
64		04	FB	00070		CALLS	#4, LIB\$SIGNAL		
3C		52	E9	00073	38:	BLBC	STATUS, 88	2216	
	018C	C3	9F	00076	48:	PUSHAB	CONF_DESC	2226	
00000000G	00	01	FB	0007A		CALLS	#1, LIB\$UNLOCK_FILE		
	52	50	DD	00081		MOVL	R0, STATUS		
	04	52	E8	00084		BLBS	STATUS, 58		
	50	52	DD	00087		MOVL	STATUS, R0	2228	
			04	0008A		RET			
	01	52	D1	0008B	58:	CMPL	STATUS, #1	2236	
		0E	12	0008E		BNEQ	68		
	018C	C3	9F	00090		PUSHAB	CONF_DESC	2238	
		01	DD	00094		PUSHL	#1		
	00000000G	8F	DD	00096		PUSHL	#SET\$NOTLOCKED		
		11	11	0009C		BRB	78		
OF	01	A3	04	E1	0009E	68:	BBC	#4, SETFILE\$FLAGS+1, 88	2240
		018C	C3	9F	000A3		PUSHAB	CONF_DESC	2241
			01	DD	000A7		PUSHL	#1	
	00000000G	8F	DD	000A9		PUSHL	#SET\$UNLOCKED		
	64	03	FB	000AF	78:	CALLS	#3, LIB\$SIGNAL		
	50	01	DD	000B2	88:	MOVL	#1, R0	2243	
			04	000B5		RET		2246	

; Routine Size: 182 bytes, Routine Base: \$CODE\$ + 1379

```
2260 2247 1 ROUTINE setpro_action (fab): =
2261 2248 1
2262 2249 1 ----
2263 2250 1
2264 2251 1 Functional description
2265 2252 1
2266 2253 1 This routine is called from SET_ATTRIBUTES whenever
2267 2254 1 the qualifier PROTECTION is found
2268 2255 1
2269 2256 1 Input parameters
2270 2257 1
2271 2258 1 fab = Address of block describing the file
2272 2259 1 fab$l_nam = pointer to name block
2273 2260 1
2274 2261 1 Output parameters
2275 2262 1
2276 2263 1 First error encountered, or TRUE is RETURNED
2277 2264 1
2278 2265 1 ----
2279 2266 1
2280 2267 2 BEGIN
2281 2268 2
2282 2269 2 MAP fab: REF $BLOCK; : Define fab block format
2283 2270 2
2284 2271 2 LOCAL
2285 2272 2 p_res_mask, : Enable-mask parameter
2286 2273 2 p_res_prot, : Value-mask parameter
2287 2274 2 final_prot: WORD, : Receives final protection
2288 2275 2 desc: VECTOR[2], : Temporary string descriptor
2289 2276 2 status; : Receives status
2290 2277 2
2291 2278 2
2292 2279 2
2293 2280 2 If /CONFIRM was set by the user then interrogate him to see if
2294 2281 2 this file is to have its protection changed.
2295 2282 2
2296 2283 2 IF
2297 2284 2 BEGIN
2298 2285 2 IF .setfile$flags[qual_quit_protect]
2299 2286 2 OR NOT .setfile$flags[qual_confirm]
2300 2287 2 THEN true
2301 2288 2 ELSE
2302 2289 2 BEGIN
2303 2290 2 status = lib$confirm_act(%ASCID 'Change protection of file !AS? [N] : ',
2304 2291 2 %REF(conf_desc));
2305 2292 2 IF NOT .status
2306 2293 2 THEN
2307 2294 2 BEGIN
2308 2295 2 IF .status EQL lib$ quipro
2309 2296 2 THEN (setfile$flags[qual_quit] = 1; RETURN true)
2310 2297 2 ELSE IF .status EQL lib$ quiconact
2311 2298 2 THEN (setfile$flags[qual_quit_mod] = 1; status = 1)
2312 2299 2 ELSE IF .status NEQ lib$ negans
2313 2300 2 THEN SIGNAL(set$writeerr, 1, conf_desc, .status);
2314 2301 2 END;
2315 2302 2 .status
2316 2303 2 END
```

```

2317 2304 3 END
2318 2305 THEN
2319 2306 BEGIN
2320 2307
2321 2308 ! Compute the parameters for lib$set_file_prot. If not protection
2322 2309 ! value was specified set enable-mask and value-mask to zero to
2323 2310 ! cause protection to be set to the process default.
2324 2311
2325 2312 p_res_mask = global_mask;
2326 2313 p_res_prot = global_prot;
2327 2314
2328 2315 IF .global_mask EQL 0 ! If not protection values specified
2329 2316 THEN p_res_mask = p_res_prot = 0; ! pass null parameters
2330 2317
2331 2318
2332 2319
2333 2320 ! Call lib$set_file_prot to set file protection
2334 2321
2335 2322
2336 2323 IF NOT (status = lib$set_file_prot ( ! Call library routine with
2337 2324 conf_desc, ! - file name
2338 2325 .p_res_mask, ! - result mask
2339 2326 .p_res_prot, ! - result protection
2340 2327 final_prot)) ! - final protection returned
2341 2328 ! by lib$set_file_prot
2342 2329
2343 2330 THEN
2344 2331 BEGIN
2345 2332 SIGNAL ( ! Tell the user of error
2346 2333 set$pronotchg, ! - "Not changed" error message
2347 2334 1, ! - 1 FAO argument
2348 2335 conf_desc, ! - descriptor of filename
2349 2336 .status); ! - original error
2350 2337 return (.status); ! Return to the caller
2351 2338 END;
2352 2339
2353 2340
2354 2341 ! If /LOG was set then do it
2355 2342
2356 2343
2357 2344 IF (.setfile$flags[qual_log]) ! If logging requested
2358 2345 THEN prot_log_results (.fab,.final_prot); ! then call the logger
2359 2346
2360 2347 END;
2361 2348 RETURN (true);
2362 2349
2363 2350 1 END;

```

```

.PSECT $PLITS,NOWRT,NOEXE,2
69 74 63 65 74 6F 72 70 20 65 67 6E 61 68 43 00478 P.AEE: .ASCII \Change protection of file !AS? [N] : \<0>
3F 53 41 21 20 65 6C 69 66 20 66 6F 20 6E 6F 00487
00 20 3A 20 5D 4E 5B 20 00496
00 00 0049E
010E0025 004A0 P.AED: .LONG 17694757

```


00000000' 004A4

.ADDRESS P.AEE

.PSECT \$CODE\$,NOWRT,2

			001C	00000	SETPRO_ACTION:		
			00	9E	00002	WORD	Save R2,R3,R4
			EF	9E	00009	MOVAB	LIB\$SIGNAL, R4
			10	C2	00010	MOVAB	SETFILES\$FLAGS, R3
SE	03		02	E0	00013	SUBL2	#16, SP
SA			03	E1	00018	BBS	#2, SETFILES\$FLAGS+3, 4\$
		018C	03	9E	0001C	BBC	#3, SETFILES\$FLAGS, 4\$
			5E	DD	00021	MOVAB	CONF_DESC, (SP)
		00000000'	EF	9F	00023	PUSHL	SP
			02	FB	00029	PUSHAB	P.AED
00000000G	00		50	DD	00030	CALLS	#2, LIB\$CONFIRM_ACT
	52		52	E8	00033	MOVL	R0, STATUS
	40		52	D1	00036	BLBS	STATUS, 4\$
00000000G	8F		07	12	0003D	CMPL	STATUS, #LIB\$_QUIPRO
	02	A3	8F	88	0003F	BNEQ	1\$
		40	7F	11	00044	BISB2	#64, SETFILES\$FLAGS+2
00000000G	8F		52	D1	00046	BRB	7\$
	02	A3	0A	12	0004D	CMPL	STATUS, #LIB\$_QUICONACT
		80	8F	88	0004F	BNEQ	2\$
	52		01	DD	00054	BISB2	#128, SETFILES\$FLAGS+2
			1A	11	00057	MOVL	#1, STATUS
00000000G	8F		52	D1	00059	BRB	3\$
			11	13	00060	CMPL	STATUS, #LIB\$_NEGANS
		018C	52	DD	00062	BEQL	3\$
			C3	9F	00064	PUSHL	STATUS
		00000000G	01	DD	00068	PUSHAB	CONF_DESC
	64		8F	DD	0006A	PUSHL	#1
	4F		04	FB	00070	PUSHL	#SET\$WRITEERR
	51	16	52	E9	00073	CALLS	#4, LIB\$SIGNAL
	50	14	A3	9E	00076	BLBC	STATUS, 7\$
		16	A3	9E	0007A	MOVAB	GLOBAL_MASK, P_RES_MASK
			A3	B5	0007E	MOVAB	GLOBAL_PROT, P_RES_PROT
			02	12	00081	TSTW	GLOBAL_MASK
			50	7C	00083	BNEQ	5\$
		04	AE	9F	00085	CLRQ	P_RES_PROT
			50	DD	00088	PUSHAB	FINAL_PROT
			51	DD	0008A	PUSHL	P_RES_PROT
		018C	C3	9F	0008C	PUSHL	P_RES_MASK
00000000G	00		04	FB	00090	PUSHAB	CONF_DESC
	52		50	DD	00097	CALLS	#4, LIB\$SET_FILE_PROT
	15		52	E8	0009A	MOVL	R0, STATUS
		018C	52	DD	0009D	BLBS	STATUS, 6\$
			C3	9F	0009F	PUSHL	STATUS
		00000000G	01	DD	000A3	PUSHAB	CONF_DESC
	64		8F	DD	000A5	PUSHL	#1
	50		04	FB	000AB	PUSHL	#SET\$PRONOTCHG
			52	DD	000AE	CALLS	#4, LIB\$SIGNAL
			04	04	000B1	MOVL	STATUS, R0
OE	01	A3	04	E1	000B2	RET	
		7E	AE	3C	000B7	BBC	#4, SETFILES\$FLAGS+1, 7\$
						MOVZWL	FINAL_PROT, -(SP)

SETFILE
V04-000

0 9
16-Sep-1984 00:53:51
14-Sep-1984 12:09:07

VAX-11 Bliss-32 V4.0-742
[CLIUTL.SRC]SETFILE.B32;1

Page 80
(14)

00000000v	EF	04	AC	DD	000BB	PUSHL	FAB
	50		02	FB	000BE	CALLS	#2, PROT_LOG_RESULTS
			01	DO	000C5	MOVL	#1, R0
			04	000C8	7%:	RET	

:
:
:
: 2348
: 2350

; Routine Size: 201 bytes, Routine Base: \$CODE\$ + 142F

```

2365 1 ROUTINE prot_log_results (fab,final_prot): =
2366 1
2367 1
2368 1
2369 1
2370 1
2371 1
2372 1
2373 1
2374 1
2375 1
2376 1
2377 1
2378 1
2379 1
2380 1
2381 1
2382 1
2383 1
2384 1
2385 1
2386 1
2387 1
2388 1
2389 1
2390 1
2391 1
2392 1
2393 1
2394 1
2395 1
2396 1
2397 1
2398 1
2399 1
2400 1
2401 1
2402 1
2403 1
2404 1
2405 1
2406 1
2407 1
2408 1
2409 1
2410 1
2411 1
2412 1
2413 1
2414 1
2415 1
2416 1
2417 1
2418 1
2419 1
2420 1
2421 1
2422 1
2423 1
2424 1
2425 1
2426 1
2427 1
2428 1
2429 1
2430 1
2431 1
2432 1
2433 1
2434 1
2435 1
2436 1
2437 1
2438 1
2439 1
2440 1
2441 1
2442 1
2443 1
2444 1
2445 1
2446 1
2447 1
2448 1
2449 1
2450 1
2451 1
2452 1
2453 1
2454 1
2455 1
2456 1
2457 1
2458 1
2459 1
2460 1
2461 1
2462 1
2463 1
2464 1
2465 1
2466 1
2467 1
2468 1
2469 1
2470 1
2471 1
2472 1
2473 1
2474 1
2475 1
2476 1
2477 1
2478 1
2479 1
2480 1
2481 1
2482 1
2483 1
2484 1
2485 1
2486 1
2487 1
2488 1
2489 1
2490 1
2491 1
2492 1
2493 1
2494 1
2495 1
2496 1
2497 1
2498 1
2499 1
2500 1
2501 1
2502 1
2503 1
2504 1
2505 1
2506 1
2507 1
2508 1
2509 1
2510 1
2511 1
2512 1
2513 1
2514 1
2515 1
2516 1
2517 1
2518 1
2519 1
2520 1
2521 1
2522 1
2523 1
2524 1
2525 1
2526 1
2527 1
2528 1
2529 1
2530 1
2531 1
2532 1
2533 1
2534 1
2535 1
2536 1
2537 1
2538 1
2539 1
2540 1
2541 1
2542 1
2543 1
2544 1
2545 1
2546 1
2547 1
2548 1
2549 1
2550 1
2551 1
2552 1
2553 1
2554 1
2555 1
2556 1
2557 1
2558 1
2559 1
2560 1
2561 1
2562 1
2563 1
2564 1
2565 1
2566 1
2567 1
2568 1
2569 1
2570 1
2571 1
2572 1
2573 1
2574 1
2575 1
2576 1
2577 1
2578 1
2579 1
2580 1
2581 1
2582 1
2583 1
2584 1
2585 1
2586 1
2587 1
2588 1
2589 1
2590 1
2591 1
2592 1
2593 1
2594 1
2595 1
2596 1
2597 1
2598 1
2599 1
2600 1
2601 1
2602 1
2603 1
2604 1
2605 1
2606 1
2607 1
2608 1
2609 1
2610 1
2611 1
2612 1
2613 1
2614 1
2615 1
2616 1
2617 1
2618 1
2619 1
2620 1
2621 1
2622 1
2623 1
2624 1
2625 1
2626 1
2627 1
2628 1
2629 1
2630 1
2631 1
2632 1
2633 1
2634 1
2635 1
2636 1
2637 1
2638 1
2639 1
2640 1
2641 1
2642 1
2643 1
2644 1
2645 1
2646 1
2647 1
2648 1
2649 1
2650 1
2651 1
2652 1
2653 1
2654 1
2655 1
2656 1
2657 1
2658 1
2659 1
2660 1
2661 1
2662 1
2663 1
2664 1
2665 1
2666 1
2667 1
2668 1
2669 1
2670 1
2671 1
2672 1
2673 1
2674 1
2675 1
2676 1
2677 1
2678 1
2679 1
2680 1
2681 1
2682 1
2683 1
2684 1
2685 1
2686 1
2687 1
2688 1
2689 1
2690 1
2691 1
2692 1
2693 1
2694 1
2695 1
2696 1
2697 1
2698 1
2699 1
2700 1
2701 1
2702 1
2703 1
2704 1
2705 1
2706 1
2707 1
2708 1
2709 1
2710 1
2711 1
2712 1
2713 1
2714 1
2715 1
2716 1
2717 1
2718 1
2719 1
2720 1
2721 1
2722 1
2723 1
2724 1
2725 1
2726 1
2727 1
2728 1
2729 1
2730 1
2731 1
2732 1
2733 1
2734 1
2735 1
2736 1
2737 1
2738 1
2739 1
2740 1
2741 1
2742 1
2743 1
2744 1
2745 1
2746 1
2747 1
2748 1
2749 1
2750 1
2751 1
2752 1
2753 1
2754 1
2755 1
2756 1
2757 1
2758 1
2759 1
2760 1
2761 1
2762 1
2763 1
2764 1
2765 1
2766 1
2767 1
2768 1
2769 1
2770 1
2771 1
2772 1
2773 1
2774 1
2775 1
2776 1
2777 1
2778 1
2779 1
2780 1
2781 1
2782 1
2783 1
2784 1
2785 1
2786 1
2787 1
2788 1
2789 1
2790 1
2791 1
2792 1
2793 1
2794 1
2795 1
2796 1
2797 1
2798 1
2799 1
2800 1
2801 1
2802 1
2803 1
2804 1
2805 1
2806 1
2807 1
2808 1
2809 1
2810 1
2811 1
2812 1
2813 1
2814 1
2815 1
2816 1
2817 1
2818 1
2819 1
2820 1
2821 1
2822 1
2823 1
2824 1
2825 1
2826 1
2827 1
2828 1
2829 1
2830 1
2831 1
2832 1
2833 1
2834 1
2835 1
2836 1
2837 1
2838 1
2839 1
2840 1
2841 1
2842 1
2843 1
2844 1
2845 1
2846 1
2847 1
2848 1
2849 1
2850 1
2851 1
2852 1
2853 1
2854 1
2855 1
2856 1
2857 1
2858 1
2859 1
2860 1
2861 1
2862 1
2863 1
2864 1
2865 1
2866 1
2867 1
2868 1
2869 1
2870 1
2871 1
2872 1
2873 1
2874 1
2875 1
2876 1
2877 1
2878 1
2879 1
2880 1
2881 1
2882 1
2883 1
2884 1
2885 1
2886 1
2887 1
2888 1
2889 1
2890 1
2891 1
2892 1
2893 1
2894 1
2895 1
2896 1
2897 1
2898 1
2899 1
2900 1
2901 1
2902 1
2903 1
2904 1
2905 1
2906 1
2907 1
2908 1
2909 1
2910 1
2911 1
2912 1
2913 1
2914 1
2915 1
2916 1
2917 1
2918 1
2919 1
2920 1
2921 1
2922 1
2923 1
2924 1
2925 1
2926 1
2927 1
2928 1
2929 1
2930 1
2931 1
2932 1
2933 1
2934 1
2935 1
2936 1
2937 1
2938 1
2939 1
2940 1
2941 1
2942 1
2943 1
2944 1
2945 1
2946 1
2947 1

```

```
2422      return (.status);
2423      END;
2424
2425      SIGNAL      (set$_protected,
2426                  2,
2427                  conf_desc,
2428                  pdesc);
2429
2430      RETURN (true);
2431
2432      END;
```

! And exit immediately

! Inform user with
! -two FAO arguments
! -file name
! -new protection

```
21 3A 47 2C 53 41 21 3A 4F 2C 53 41 21 3A 53 004A8 P.AEG: .ASCII \S:!AS,O:!AS,G:!AS,W:!AS\<0>
00 53 41 21 3A 57 2C 53 41 004B7
00000017 004C0 P.AEF: .LONG 23
00000000 004C4 .ADDRESS P.AEG
```

.EXTRN SYSSFAOL

.PSECT \$CODE\$,NOWRT,2

000C 00000 PROT_LOG_RESULTS:

```
53 00000000G 00 9E 00002 .WORD Save R2,R3
5E C0 AE 9E 00009 MOVAB LIB$SIGNAL, R3
08 AC DD 0000D MOVAB -64(SP), SP
04 AE 9F 00010 PUSHL FINAL_PROT
00000000V EF 02 FB 00013 PUSHAB PROT_TABLE
18 AE 20 D0 0001A CALLS #2, EXPAND_PROT
1C AE 20 AE 9E 0001E MOVL #32, PDESC
AE SE DD 00023 MOVAB PBUF, PDESC+4
1C AE 9F 00025 PUSHL SP
20 AE 9F 00028 PUSHAB PDESC
00000000G 00 EF 9F 0002B PUSHAB PDESC
52 04 FB 00031 PUSHAB P.AEF
09 50 D0 00038 CALLS #4, SYSSFAOL
63 52 EB 0003B MOVL R0, STATUS
50 52 DD 0003E BLBS STATUS, 1$
01 FB 00040 PUSHL STATUS
52 D0 00043 CALLS #1, LIB$SIGNAL
04 00046 MOVL STATUS, R0
18 AE 9F 00047 RET
00000000 EF 9F 0004A 1$: PUSHAB PDESC
02 DD 00050 PUSHAB CONF_DESC
00000000G 8F DD 00052 PUSHL #2
63 04 FB 00058 PUSHL #SET$ PROTECTED
50 01 D0 0005B CALLS #4, LIB$SIGNAL
04 0005E MOVL #1, R0
RET
```

; Routine Size: 95 bytes, Routine Base: \$CODE\$ + 14F8

2351

2395

2393

2397

2398

2405

2407

2408

2411

2416

2418


```
2434 1 ROUTINE expand_prot (table, protection): =
2435 1
2436 1 -----
2437 1
2438 1 Functional description
2439 1
2440 1 This routine, called from PROT_LOG_RESULTS, fills
2441 1 a given VECTOR with the addresses of strings
2442 1 corresponding to a given protection word.
2443 1
2444 1 Input parameters
2445 1
2446 1 table = Address of the table to be filled in.
2447 1 protection = Protection word.
2448 1
2449 1 Output parameters
2450 1
2451 1 table has been filled in with the addresses of descriptors
2452 1 of strings describing each type of user (SYS,OWN,GRP,WORLD).
2453 1
2454 1 -----
2455 1
2456 1 BEGIN
2457 1
2458 1 BIND
2459 1 prot_table = .table: VECTOR[4]; ! Table of addresses
2460 1
2461 1 OWN
2462 1 prot_values: VECTOR[16] INITIAL( ! Protection descriptions
2463 1 ADDRDESC('RWED'),
2464 1 ADDRDESC('WED'),
2465 1 ADDRDESC('RED'),
2466 1 ADDRDESC('ED'),
2467 1 ADDRDESC('RWD'),
2468 1 ADDRDESC('WD'),
2469 1 ADDRDESC('RD'),
2470 1 ADDRDESC('D'),
2471 1 ADDRDESC('RWE'),
2472 1 ADDRDESC('WE'),
2473 1 ADDRDESC('RE'),
2474 1 ADDRDESC('E'),
2475 1 ADDRDESC('RW'),
2476 1 ADDRDESC('W'),
2477 1 ADDRDESC('R'),
2478 1 ADDRDESC(''));
2479 1
2480 1 INCR index FROM 0 TO 3 DO
2481 1 prot_table[index] = .prot_values [.protection<.index*4,4>];
2482 1
2483 1 RETURN (true); ! Always return true
2484 1
2485 1 END;
```

.PSECT SPLITS,NOWRT,NOEXE,2

```
44 45 57 52 004C8 P.AEI: .ASCII \RWED\
      00000004 004CC P.AEH: .LONG 4
      00000000 004D0 .ADDRESS P.AEI
00 44 45 57 004D4 P.AEK: .ASCII \WED\<0>
      00000003 004D8 P.AEJ: .LONG 3
      00000000 004DC .ADDRESS P.AEK
00 44 45 52 004E0 P.AEM: .ASCII \RED\<0>
      00000003 004E4 P.AEL: .LONG 3
      00000000 004E8 .ADDRESS P.AEM
00 00 44 45 004EC P.AEO: .ASCII \ED\<0><0>
      00000002 004F0 P.AEN: .LONG 2
      00000000 004F4 .ADDRESS P.AEO
00 44 57 52 004F8 P.AEQ: .ASCII \RWD\<0>
      00000003 004FC P.AEP: .LONG 3
      00000000 00500 .ADDRESS P.AEQ
00 00 44 57 00504 P.AES: .ASCII \WD\<0><0>
      00000002 00508 P.AER: .LONG 2
      00000000 0050C .ADDRESS P.AES
00 00 44 52 00510 P.AEU: .ASCII \RD\<0><0>
      00000002 00514 P.AET: .LONG 2
      00000000 00518 .ADDRESS P.AEU
00 00 00 44 0051C P.AEW: .ASCII \D\<0><0><0>
      00000001 00520 P.AEV: .LONG 1
      00000000 00524 .ADDRESS P.AEW
00 45 57 52 00528 P.AEY: .ASCII \RWE\<0>
      00000003 0052C P.AEX: .LONG 3
      00000000 00530 .ADDRESS P.AEY
00 00 45 57 00534 P.AFA: .ASCII \WE\<0><0>
      00000002 00538 P.AEZ: .LONG 2
      00000000 0053C .ADDRESS P.AFA
00 00 45 52 00540 P.AFC: .ASCII \RE\<0><0>
      00000002 00544 P.AFB: .LONG 2
      00000000 00548 .ADDRESS P.AFC
00 00 00 45 0054C P.AFE: .ASCII \E\<0><0><0>
      00000001 00550 P.AFD: .LONG 1
      00000000 00554 .ADDRESS P.AFE
00 00 57 52 00558 P.AFG: .ASCII \RW\<0><0>
      00000002 0055C P.AFF: .LONG 2
      00000000 00560 .ADDRESS P.AFG
00 00 00 57 00564 P.AFI: .ASCII \W\<0><0><0>
      00000001 00568 P.AFH: .LONG 1
      00000000 0056C .ADDRESS P.AFI
00 00 00 52 00570 P.AFK: .ASCII \R\<0><0><0>
      00000001 00574 P.AFJ: .LONG 1
      00000000 00578 .ADDRESS P.AFK
      00000000 0057C P.AFM: .BLKB 0
      00000000 0057C P.AFL: .LONG 0
      00000000 00580 .ADDRESS P.AFM
```

.PSECT \$OWNS,NOEXE,2

```
00000000' 00000000' 00000000' 00000000' 00000000' 00000000' 00034 PROT_VALUES:
00000000' 00000000' 00000000' 00000000' 00000000' 00000000' 0004C .ADDRESS P.AEH, P.AEJ, P.AEL, P.AEN, P.AEP, -
00000000' 00000000' 00000000' 00000000' 00000000' 00000000' 00064 P.AER, P.AET, P.AEV, P.AEX, P.AEZ, P.AFB, -
P.AFD, P.AFF, P.AFH, P.AFJ, P.AFL
```

.PSECT \$CODE\$,NOWRT,2

0004 00000 EXPAND_PROT:

51	08	52 AC	50	04	00000000'EF	50 D4 00002	15:	WORD	Save R2	:	2419
		E8	04			02 78 00004		CLRL	INDEX	:	2465
			50			52 EF 00008		ASHL	#2, INDEX, R2	:	2466
			50			41 D0 0000E		EXTZV	R2, #4, PROTECTION, R1	:	
			50			03 F3 00018		MOVL	PROT VALUES[R1], @TABLE[INDEX]	:	
			01			D0 0001C		AOBLEQ	#3, INDEX, 15	:	2468
			04			0001F		MOVL	#1, R0	:	2470
								RET		:	

; Routine Size: 32 bytes, Routine Base: \$CODE\$ + 1557

```
2487 2471 1 ROUTINE parse_class (desc) =
2488 2472 1
2489 2473 1 ---
2490 2474 1
2491 2475 1 This routine called from SETPRO ACTION, parses one class of user
2492 2476 1 (e.g. SYSTEM, OWNER, GROUP, WORD) to see what protection is allowed.
2493 2477 1 The value returned in the low 4 bits is the protection code, with the
2494 2478 1 bits set to reflect that access is requested. Note that this is
2495 2479 1 exactly the opposite of what the system wants.
2496 2480 1
2497 2481 1 Inputs:
2498 2482 1
2499 2483 1 DESC -- a descriptor pointing to the ASCII representation of the
2500 2484 1 protection desired
2501 2485 1
2502 2486 1 ---
2503 2487 1
2504 2488 1 BEGIN
2505 2489 1
2506 2490 1 MAP desc : REF $BLOCK;
2507 2491 1
2508 2492 1 LOCAL
2509 2493 1 pointer, ! Pointer to string
2510 2494 1 result; ! Resultant protection
2511 2495 1
2512 2496 1
2513 2497 1 Initially set the value to all zeros, no access
2514 2498 1
2515 2499 1 result = 0;
2516 2500 1
2517 2501 1
2518 2502 1 Scan for the occurrence of each keyletter, and, if it is there, set the
2519 2503 1 appropriate bit.
2520 2504 1
2521 2505 1 pointer = .desc[desc$a_pointer];
2522 2506 1 INCR index FROM 1 to .desc[desc$w_length] DO
2523 2507 1 BEGIN
2524 2508 1 LOCAL char : BYTE;
2525 2509 1 char = CH$RCHAR_A(pointer);
2526 2510 1 IF .char EQL 'R'
2527 2511 1 THEN result = .result OR %X'1'
2528 2512 1 ELSE IF .char EQL 'W'
2529 2513 1 THEN result = .result OR %X'2'
2530 2514 1 ELSE IF .char EQL 'E'
2531 2515 1 OR .char EQL 'P'
2532 2516 1 THEN result = .result OR %X'4'
2533 2517 1 ELSE IF .char EQL 'D'
2534 2518 1 OR .char EQL 'L'
2535 2519 1 THEN result = .result OR %X'8'
2536 2520 1 ELSE SIGNAL_STOP (set$syntax, 1, .desc);
2537 2521 1 END;
2538 2522 1
2539 2523 1 RETURN .result;
2540 2524 1 END;
```



```
007C 00000 PARSE_CLASS:
      52      04 AC D0 00002      .WORD      Save R2,R3,R4,R5,R6      : 2471
      56      04 A2 D0 00006      MOVL      DESC, R2                : 2505
      55      62 3C 0000A      MOVZWL     4(R2), POINTER            :
      53      7C 0000D      CLRG         (R2), R5                    : 2506
      4C      11 0000F      BRB          INDEX                      :
      86      90 00011 1$:      MOVB      (POINTER)+, CHAR          : 2509
      52 8F      50 91 00014      CMPB     CHAR, #82                : 2510
      54      05 12 00018      BNEQ      2$                          :
      3E      11 0001D      BRB          #1, RESULT                 : 2511
      57 8F      50 91 0001F 2$:  CMPB     CHAR, #87                : 2512
      54      05 12 00023      BNEQ      3$                          :
      45 8F      02 88 00025      BISB2    #2, RESULT                 : 2513
      50 8F      33 11 00028      BRB          8$                    :
      54      50 91 0002A 3$:  CMPB     CHAR, #69                    : 2514
      50 8F      06 13 0002E      BEQL     4$                        :
      54      50 91 00030      CMPB     CHAR, #80                    : 2515
      44 8F      05 12 00034      BNEQ      5$                        :
      4C 8F      04 88 00036 4$:  BISB2    #4, RESULT                 : 2516
      54      22 11 00039      BRB          8$                        :
      50 8F      50 91 0003B 5$:  CMPB     CHAR, #68                    : 2517
      54      06 13 0003F      BEQL     6$                        :
      50 8F      50 91 00041      CMPB     CHAR, #76                    : 2518
      54      05 12 00045      BNEQ      7$                        :
      08      88 00047 6$:  BISB2    #8, RESULT                 : 2519
      11      11 0004A      BRB          8$                        :
      52 DD 0004C 7$:  PUSHL     R2                                : 2520
      01 DD 0004E      PUSHL     #1                                :
      8F DD 00050      PUSHL     #7803130                          :
      03 FB 00056      CALLS     #3, LIB$STOP                      :
      55 F3 0005D 8$:  AOBLEQ    R5, INDEX, 1$                    : 2506
      54 D0 00061      MOVL      RESULT, R0                        : 2523
      04 00064      RET                                           : 2524
```

00000000G 00 007710FA
B0 53
50

; Routine Size: 101 bytes, Routine Base: \$CODE\$ + 1577

SETFILE
V04-000

L 9
16-Sep-1984 00:53:51
14-Sep-1984 12:09:07

VAX-11 Bliss-32 V4.0-742
[CLIUTL.SRC]SETFILE.B32;1

Page 88
(18)

: 2542
: 2543
2525 1 END
2526 0 ELUDOM

.EXTRN LIB\$SIGNAL, LIB\$STOP

PSECT SUMMARY

Name	Bytes	Attributes
\$GLOBAL\$	1112	NOVEC, WRT, RD, NOEXE, NOSHR, LCL, REL, CON, NOPIC, ALIGN(2)
\$OWNS	116	NOVEC, WRT, RD, NOEXE, NOSHR, LCL, REL, CON, NOPIC, ALIGN(2)
\$PLITS	1412	NOVEC, NOWRT, RD, NOEXE, NOSHR, LCL, REL, CON, NOPIC, ALIGN(2)
\$CODE\$	5596	NOVEC, NOWRT, RD, EXE, NOSHR, LCL, REL, CON, NOPIC, ALIGN(2)
. ABS .	0	NOVEC, NOWRT, NORD, NOEXE, NOSHR, LCL, ABS, CON, NOPIC, ALIGN(0)

Library Statistics

File	----- Total	Symbols Loaded	----- Percent	Pages Mapped	Processing Time
-\$255\$DUA28:[SYSLIB]LIB.L32;1	18619	224	1	1000	00:01.9
-\$255\$DUA28:[SYSLIB]CLIMAC.L32;1	14	0	0	9	00:00.1

COMMAND QUALIFIERS

: BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/LIS=LIS\$:SETFILE/OBJ=OBJ\$:SETFILE MSRC\$:SETFILE/UPDATE=(ENH\$:SETFILE)

: Size: 5596 code + 2640 data bytes
: Run Time: 01:41.5
: Elapsed Time: 05:29.3
: Lines/CPU Min: 1492
: Lexemes/CPU-Min: 22862
: Memory Used: 780 pages
: Compilation Complete

0053

AH-BT13A-SE
 VAX/VMS V4.0

DIGITAL EQUIPMENT CORPORATION
CONFIDENTIAL AND PROPRIETARY